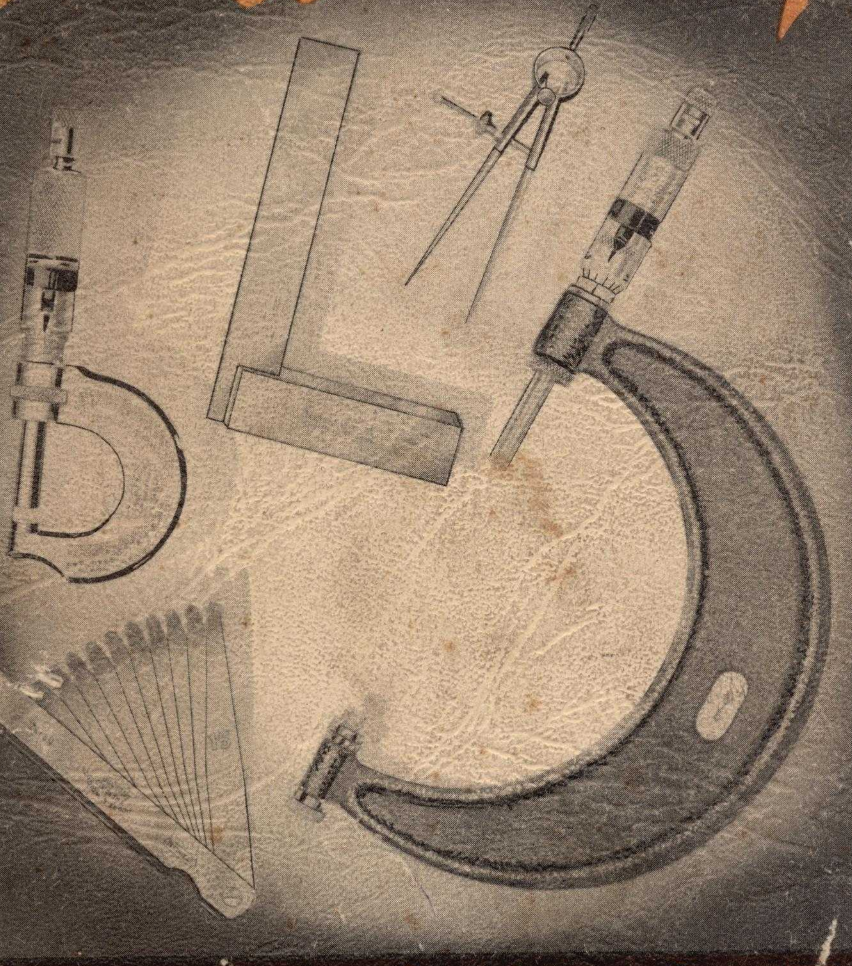
for Accuracy



MOORE & WRIGHT

(SHEFFIELD) LTD
SHEFFIELD ENGLAND

Sold by

**ALL GOOD TOOL DEALERS
THROUGHOUT THE WORLD**

NOTE
ALL PRICES ARE NOW PLUS 40%

List No. 39.
September, 1939.

To the Tool Buyer

The Tools shown in this List are produced :—

1. In a healthy factory, **in SHEFFIELD, ENGLAND.**
2. Under good conditions of work and wages higher than current T.U. rates.
3. No garret labour or merchant (or middleman)—exploited work enters into their production at any stage.
4. Every worker, both male and female, on reaching 18 years has one week's holiday paid for.
5. Our retail prices are maintained everywhere.
6. Every tool is marked "Moore & Wright," or "Safe and Sure," as a guarantee that the above conditions are carried out.
7. Customers are given the full benefit **at once** of any improvement in manufacture.
8. Our guarantee is not an empty phrase, but a true contract between ourselves and you.
9. **BRITISH LABOUR** in all Tools—**NOTHING ELSE.**

Almost every practical improvement in Engineers' Tools for the last 10 years has originated in our workshops.

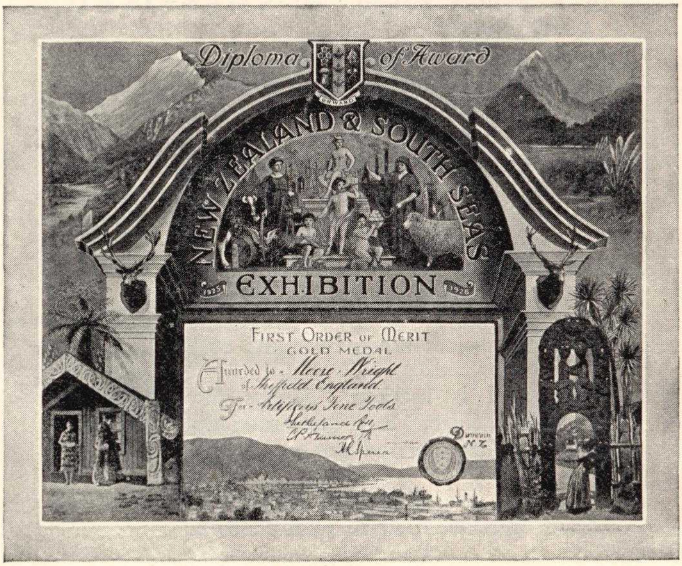
● *The prices in this Catalogue are only valid and current in Great Britain and Northern Ireland*

MOORE & WRIGHT (SHEFFIELD) LTD. ENGLAND ●
MEMBERS OF BRITISH STANDARDS INSTITUTION
ON AIR MINISTRY LIST OF FIRMS WHOSE INSPECTION AND TESTING FACILITIES HAVE RECEIVED A.I.D. APPROVAL

SOUTH SEAS EXHIBITION

DUNEDIN, 1926

HIGHEST AWARD AGAINST WORLD COMPETITION.



Diploma of Award

NEW ZEALAND & SOUTH SEAS EXHIBITION

FIRST ORDER OF MERIT
GOLD MEDAL
Awarded to Moore Wright
of Sheffield England
For Artificers Fine Tools

Dunedin N.Z.

The above is an illustration of the Diploma awarded to us. **First Award of Merit AND Gold Medal** for the quality and finish of our tools.

WE WERE THE ONLY FIRM WHO OBTAINED THE DOUBLE AWARD ON SMALL TOOLS.

This Catalogue issued by

BRITAIN'S TOOL FACTORY
SHEFFIELD

contains the most complete range of British Tools ever issued by a Manufacturer.

Every tool bearing any of our marks, i.e.,

"MOORE & WRIGHT." "MOORITE." "M & W" or "BRITAIN'S TOOL FACTORY,"

carries our full guarantee to do the work for which it was designed and sold, and if it fails will be exchanged free of charge if taken back to the place where purchased or returned carriage paid to Britain's Tool Factory, Sheffield.

This guarantee does not cover any liability beyond the replacement of the defective tool concerned, and no claim for personal injury, or injury or loss to third parties will be deemed to be within the scope of this guarantee which is limited to the replacement, as above.

THE ABOVE GUARANTEE does not apply to any article on which any name or mark has been struck by the purchaser, or which has been abused, nor does it apply to goods which have had long and hard wear.

We definitely do not **exchange,** free of charge, goods which have had hard and long wear, but where any defect is present we will put them in working order, if possible.

The prices given in this catalogue are the fixed retail prices at which the goods can be bought from any Tool dealer, Ironmonger or Stores in Great Britain. On receipt of p.c. we will give the name of nearest dealer carrying stock, or we will send from our works direct on receipt of the printed price.

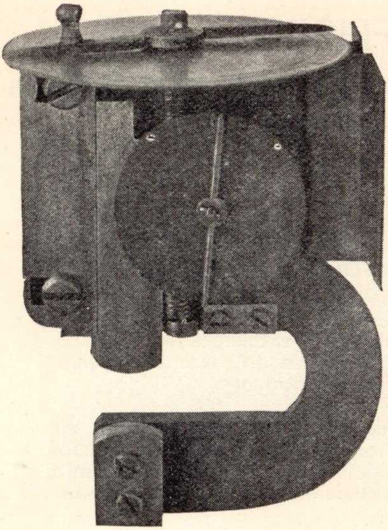
Monthly credit accounts will be opened with dealers on receipt of two satisfactory trade references.

Cases charged at cost and full value allowed if returned carriage paid ; half cost allowed if kept.

Carriage Paid on lots of £10 net value in Great Britain. **Less than £10 carriage forward.**

P.S.—We reserve the right to alter the design or price of any article without notice.

HISTORICAL



JAS. WATT'S MICROMETER

The Micrometer was invented by James Watt in 1819, who felt the need of a more accurate measuring instrument than was obtainable at that time. A model of this Micrometer is to be seen in the South Kensington Science Museum.

As has happened in so many other inventions and discoveries, the development of the idea took place in other countries, and at the time we began the manufacture of these tools the trade was in the hands of foreign firms. We had been studying the weaknesses and drawbacks of the prevailing article for many years, and were impressed with the fact that all foreign Micrometers were fitted with unhardened screws with the attendant rapid wear, need of constant adjustment, and final inaccuracy. **We, therefore, decided to make a screw of one piece of hardened steel, with the threads ground after hardening, with all the internal strains of the steel released.**

These screws are an enormous advance on those produced by any other method than grinding, and Micrometers fitted with them represent the greatest advance made in tools of this kind.

The Micrometers shown in the following pages (excepting No. 938), are all fitted with the new process, hardened and thread ground screws.

ABOUT MICROMETERS

MOORE & WRIGHT Micrometers are made in a special factory built for the purpose at the request of the British Government. The building is of steel and concrete, specially devised to ensure rigidity and eliminate vibration.

The machines used in the production of micrometer screws are the most accurate we can procure. If and when better machines can be had we shall have them.

We guarantee every micrometer to be of the highest grade of accuracy, equal to the standard of the National Physical Laboratory's Class "A," adjustable micrometers excepted, and we will replace free of charge any tool not equalling this standard.

We cannot exchange, or be in any way responsible for, any tool that has been abused, tampered with, experimented on or had names, etc., stamped on. Apart from these points our guarantee has the most liberal interpretation.

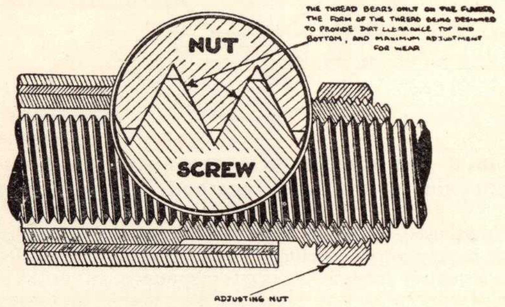
The salient points to which we wish to draw attention are the following :

SCREW

The Screw is made from **one piece** of special alloy tool steel, hardened throughout, and special attention is paid to "ageing" to avoid distortion and subsequent error. **The threads are ground out of the solid bar, after hardening, of an accuracy never excelled, placing M. & W. Micrometers in the very highest class.**

SCREW ACCURACY

The accuracy and long life of a screw depend on the accuracy of the flanks of the thread. We, therefore, ignore both the crest and the bottom of the thread and concentrate on the accuracy of the flanks. The illustration below will show why this construction is the best.


THE THREAD BEARS ONLY ON THE FLANKS, THE FORM OF THE THREAD BEING DESIGNED TO PROVIDE DIRT CLEARANCE TOP AND BOTTOM, AND MAXIMUM ADJUSTMENT FOR WEAR
NUT
SCREW
ADJUSTING NUT

This form of thread besides ensuring the minimum wear and maximum life makes adequate provision for lubricating oil to be retained in the clearance shown on the top and bottom of each thread. Pieces of grit and dirt which get into the screw quickly find their way into the clearance and make for smoother working.

ABOUT MICROMETERS

continued.

MAIN NUT AND ADJUSTING NUT

The main nut is so placed that when adjusted the maximum number of threads are in contact.

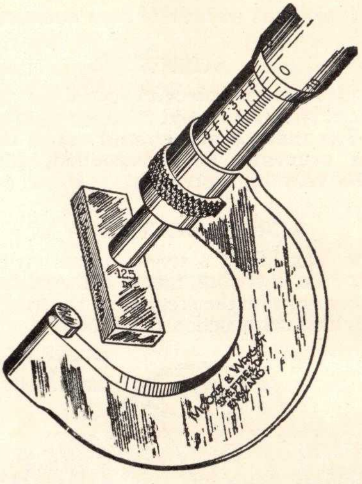
ACCURACY OF SPINDLE AND ANVIL FACES

The importance of accuracy at these two points is quite as great as the accuracy of the pitch, and we refer you to page 7 for our methods of checking.

FLATNESS OF ANVILS, Etc.

Johansson, P.V.E., and "Matrix" gauge blocks are by common consent acknowledged to be the most accurate, flat surfaces produced, and this flatness is demonstrable by the fact that they will wring together.

The anvil and spindle faces of M. & W. micrometers **will wring to block gauges** of the above makes as shown in the illustration below.



All anvil and spindle faces are tested for flatness and parallelism by the latest method of light interference.

The frames used in M. & W. micrometers are scientifically treated to ensure their having a low co-efficient of expansion, and during manufacture they are adequately rested between operations in order to ensure the elimination of internal strains which are inseparable from forging or casting.

NO MICROMETER CAN EQUAL THOSE FITTED WITH HARDENED AND GROUND SCREWS. THEIR ACCURACY AND DURABILITY ARE UNEQUALLED.

HOW M. & W. MICROMETERS ARE TESTED

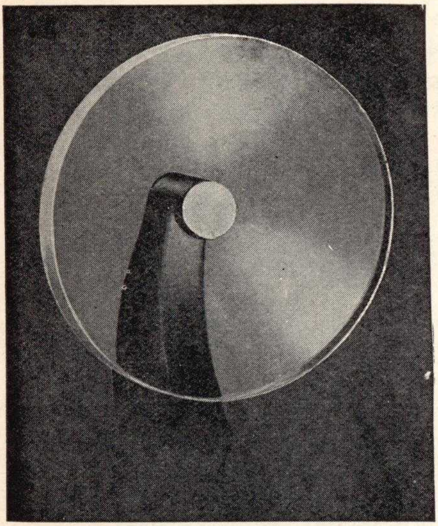


Fig. 1

The Spindle and Anvil faces on all M. & W. Micrometers are tested by optical parallels, i.e., by light interference. When the face, being tested, shows no coloured bands when the optical parallel is placed on it, the face is a true plane surface. This is shown in Fig. 1.

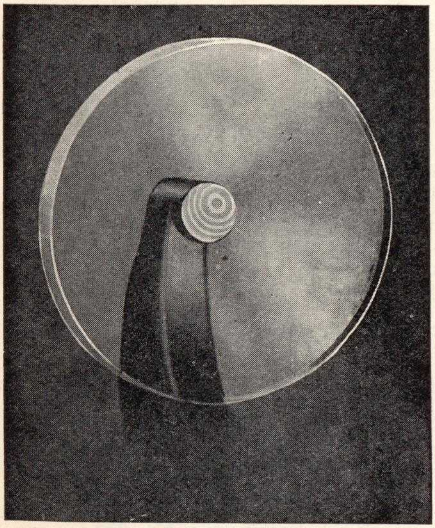


Fig. 2

When, however, the Anvil or Spindle face shows a series of coloured bands it is positive evidence that the face deviates from true planeness, Fig. 2. The number of bands or circles is in proportion to its inaccuracy. No face is passed as flat which shows more than one complete interference band, i.e., 10 millionths of an inch. This optical test is positive and accurate and entirely eliminates the uncertainty inherent in mechanical testing.

ABOUT MICROMETERS

continued.

● **These tools are not experiments. They have been put to the severest test both in the laboratory and in actual service, and are to-day IN USE IN EVERY GOVERNMENT DEPARTMENT and in practically EVERY IMPORTANT ENGINEERING CONCERN in the British Isles.**

We give below the names of **a few firms and institutions** who have given us permission to use their names as satisfied **USERS** of our micrometers.

National Physical Laboratory	Teddington.
Admiralty	Whitehall.
Air Ministry	London.
Admiralty Gauge Department	Sheffield.
Rolls-Royce Ltd.	Derby.
Barr & Stroud Ltd.	Glasgow.
Taylor, Taylor & Hobson Ltd.	Leicester.
Coventry Gauge & Tool Co. Ltd.	Coventry.
Cooke, Troughton & Simms Ltd.	London.
John Bibby, Sons & Co. Ltd. (Garston)	Liverpool.
W. & T. Avery Ltd.	Birmingham.
Lake & Elliott Ltd.	Braintree.
The Hoffman Manufacturing Co. Ltd.	Chelmsford.

And EVERY Government Department and principal Railway Companies.

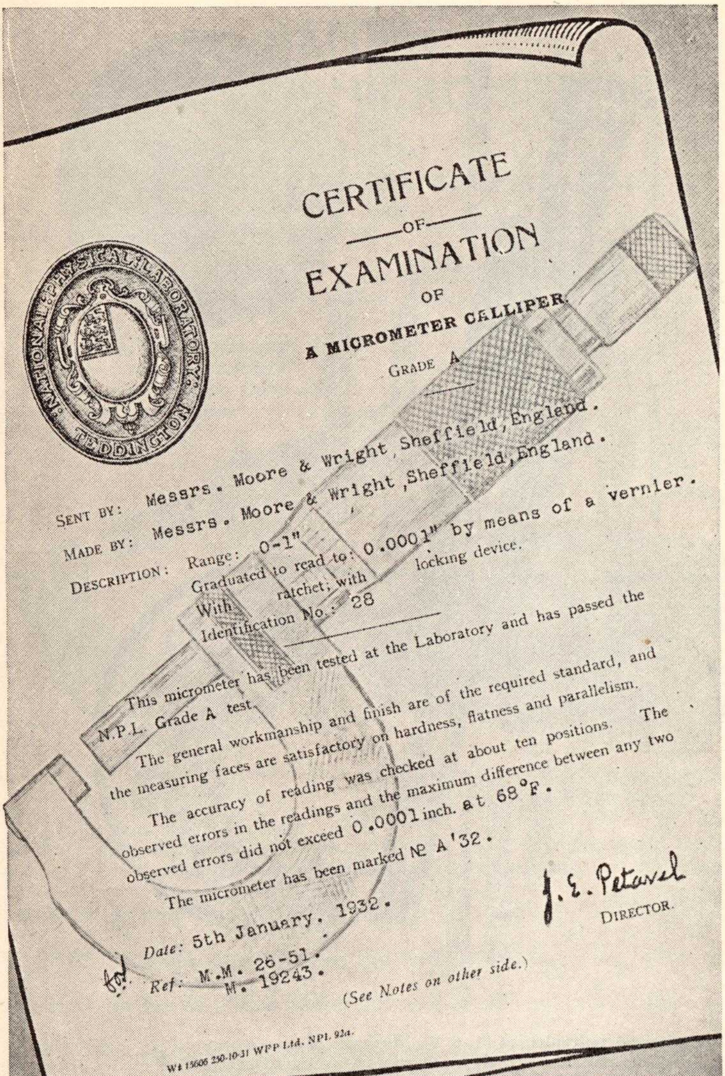
GUARANTEE

We definitely guarantee every one inch micrometer to an accuracy of 1/10,000 (one-tenthousandth) of an inch **at 68° Fahrenheit,** and certify that every micrometer passes this test before leaving our works. This is the equivalent of the National Physical Laboratory Test Class A for a 1 in. micrometer. Larger sizes are all guaranteed to the appropriate degree of accuracy specified by the N.P.L.

N.P.L. CERTIFICATES (National Physical Laboratory) Facsimile on next page.

N.P.L. Certificates will be furnished with Micrometers on payment of the following prices, which are additional to the prices of the tools :—Up to 1 in. 8/6, 1 in. to 2 in. 11/6, 2 in. to 6 in. 14/- each nett. Micrometer heads 6/- each nett. The N.P.L. (National Physical Laboratory) is the Standard Reference authority for the verification of all instruments of precision.

All our Micrometers comply with B.S.I. Specification No. 870



CERTIFICATE
OF
EXAMINATION
OF
A MICROMETER CALLIPER
GRADE A

Sent by: Messrs. Moore & Wright, Sheffield, England.

Made by: Messrs. Moore & Wright, Sheffield, England.

Description: Range: 0-1"
Graduated to read to: 0.0001" by means of a vernier.
With ratchet; with locking device.
Identification No.: 28

This micrometer has been tested at the Laboratory and has passed the N.P.L. Grade A test.

The general workmanship and finish are of the required standard, and the measuring faces are satisfactory on hardness, flatness and parallelism.

The accuracy of reading was checked at about ten positions. The observed errors in the readings and the maximum difference between any two observed errors did not exceed 0.0001 inch. at 68°F.

The micrometer has been marked № A'32.

J. E. Petavel
Director.

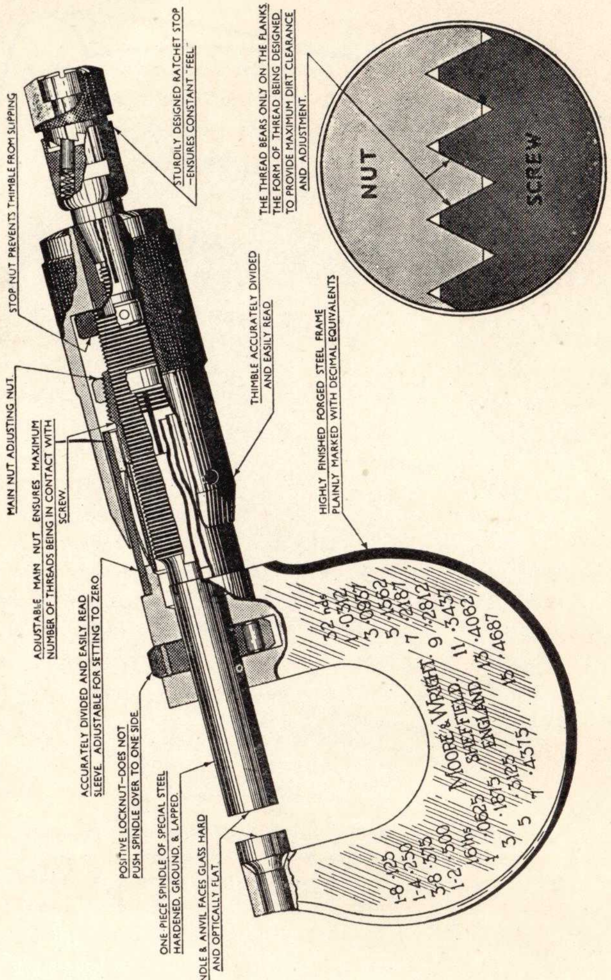
Date: 5th January. 1932.
Ref: M.M. 26-51.
M. 19243.

(See Notes on other side.)

Wt 15606 250-10-31 WFP Ltd. NPL 92a.

For prices of N.P.L Certificates see Page 8

SECTION SHOWING PRINCIPAL POINTS OF MOORE & WRIGHT'S MICROMETER.


STOP NUT PREVENTS THIMBLE FROM SLIPPING
STURDILY DESIGNED RATCHET STOP —ENSURES CONSTANT "FEEL"
THE THREAD BEARS ONLY ON THE FLANKS THE FORM OF THREAD BEING DESIGNED TO PROVIDE MAXIMUM DIRT CLEARANCE AND ADJUSTMENT.
NUT
SCREW
THIMBLE ACCURATELY DIVIDED AND EASILY READ
MAIN NUT ADJUSTING NUT.
ADJUSTABLE MAIN NUT ENSURES MAXIMUM NUMBER OF THREADS BEING IN CONTACT WITH SCREW.
HIGHLY FINISHED FORGED STEEL FRAME PLAINLY MARKED WITH DECIMAL EQUIVALENTS
ACCURATELY DIVIDED AND EASILY READ SLEEVE. ADJUSTABLE FOR SETTING TO ZERO
POSITIVE LOCKNUT—DOES NOT PUSH SPINDLE OVER TO ONE SIDE
ONE-PIECE SPINDLE OF SPECIAL STEEL HARDENED, GROUND, & LAPPED.
SPINDLE & ANVIL FACES GLASS HARD AND OPTICALLY FLAT.
MOORE & WRIGHT SHEFFIELD ENGLAND
32 nds
1 .0312
3 .0937
5 .1562
7 .2187
9 .2812
11 .3437
13 .4062
15 .4687
1-8 .125
1-4 .250
3-8 .375
1-2 .500
16ths
1 .0625
3 .1875
5 .3125
7 .4375

The outstanding features of M. & W. Micrometers are :—

1. Perfectly designed Screw (see illustration) hardened and ground.
2. Larger thread diameter, giving larger thread area, consequently longer life.
3. Spindle and Screw of one piece of special Alloy Steel, almost impervious to wear.
4. Optically flat spindle and anvil faces.
5. Larger range of adjustment on thimble and spindle than on any other Micrometer.

Large size Charts of this illustration can be had for demonstration purposes in Schools, Colleges, etc.

In the very first rank.

BRITISH
PRECISION MICROMETERS

Fitted with

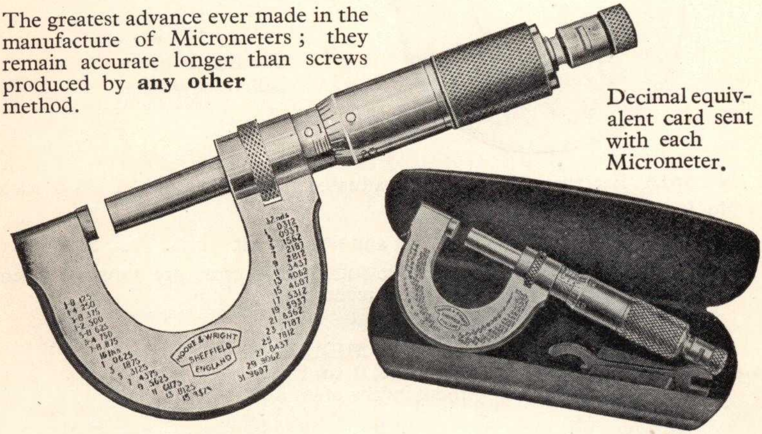
HARDENED AND GROUND SCREWS

ENGLISH MEASURE	or	METRIC MEASURE
Range, 0 to 1″		**Range, 0 to 25 m/m**
by thousandths of an inch		by hundredths of a millimeter

Add M to No. when ordering Metric.

The greatest advance ever made in the manufacture of Micrometers ; they remain accurate longer than screws produced by **any other** method.

Decimal equivalent card sent with each Micrometer.



All Micrometers of Series 961 are sent out in cases like above.

No. **961**	As illustration, 0-1 in. graduated in 1/1000ths, with ratchet stop and lock nut, in leather-covered steel case ..	35/-	each
No. **961D**	As above, but no ratchet	35/-	„
No. **961E**	As above, but no ratchet and no lock nut	35/-	„
No. **961O**	As No. 961, with ratchet but no lock nut	35/-	„

All 961 series are in Case as illustrated, but can be supplied in soft leather cases at the same price if desired.

Metric Micrometers are not supplied fitted with vernier except at special price.

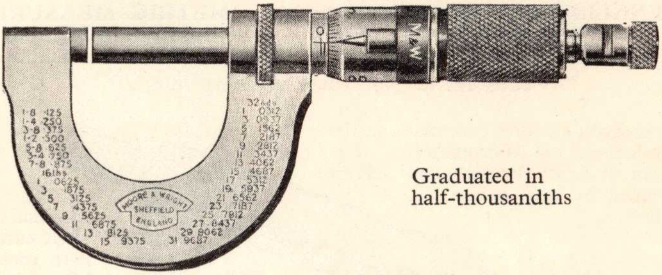
Tungsten-Carbide tipped Micrometers, see page 21.

BRITISH
PRECISION MICROMETERS

Fitted with

HARDENED AND GROUND SCREWS

ENGLISH MEASURE
Range, 0 to 1″



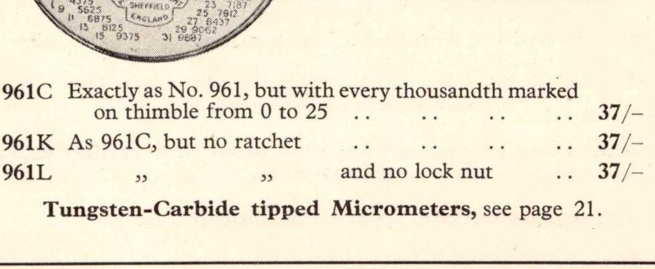
Graduated in
half-thousandths

No. **961A**	Exactly as No. 961, but graduated in half-thousandths	36/6	each
No. **961F**	As 961A, but no ratchet	36/6	„
No. **961G**	As 961A, but no ratchet and no lock nut	36/6	„

In leather-covered Steel Cases, but soft leather cases are supplied when specially mentioned.

ENGLISH MEASURE
Range, 0 to 1″

by thousandths of an inch.



With every thousandth
marked on the thimble.

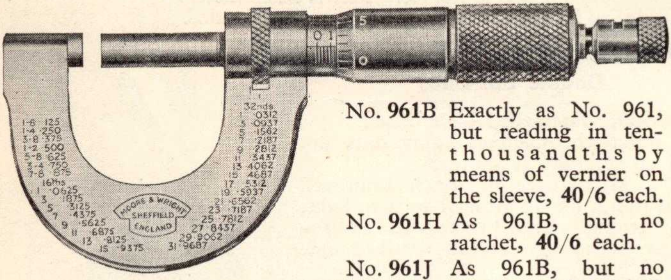
No. **961C**	Exactly as No. 961, but with every thousandth marked on thimble from 0 to 25	37/–	each
No. **961K**	As 961C, but no ratchet	37/–	„
No. **961L**	„ „ and no lock nut ..	37/–	„

Tungsten-Carbide tipped Micrometers, see page 21.

84 + 7½
– 10%

BRITISH MICROMETER CALIPERS

Range, 0 to 1″
by **ten-thousandths** as well as thousandths of an inch.



No. 961B

No. 961B Exactly as No. 961, but reading in ten-thousandths by means of vernier on the sleeve, **40/6** each.

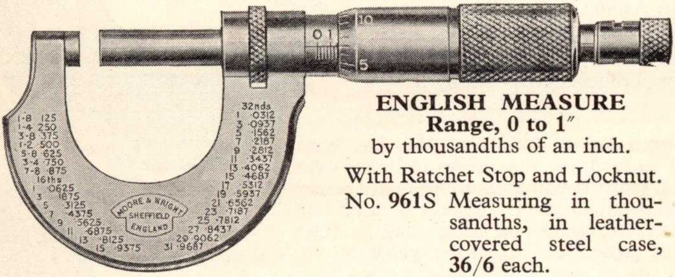
No. 961H As 961B, but no ratchet, **40/6** each.

No. 961J As 961B, but no ratchet, and no lock nut, **40/6** each.

Fitted with

HARDENED AND GROUND SCREWS

Card of decimal equivalents is enclosed with each Micrometer.



No. 961S
With CUT-AWAY FRAME

Hardened and Ground Screws ensure prolonged accuracy.

The Frame on this model is cut away so it can be used in places where the ordinary frame is too big. At the cut-away end the frame is about $\frac{11}{32}$ in. wide.

ENGLISH MEASURE

Range, 0 to 1″
by thousandths of an inch.

With Ratchet Stop and Locknut.

No. 961S Measuring in thousandths, in leather-covered steel case, **36/6** each.

No. 961SB Measuring in ten-thousandths, in leather-covered steel case, **42/–** each.

METRIC MEASURE

Range, 0 to 25 m/m
by hundredths of a millimeter

No. 961SM Measuring in hundredths of a millimeter, in leather-covered steel case.

36/6 each.

Metric Micrometers are not supplied fitted with vernier except at special price.

Tungsten-Carbide tipped Micrometers, see page 21.

BRITISH PRECISION MICROMETERS

ENGLISH MEASURE or **METRIC MEASURE**

Range, 0 to 1″ **Range, 0 to 25 m/m**

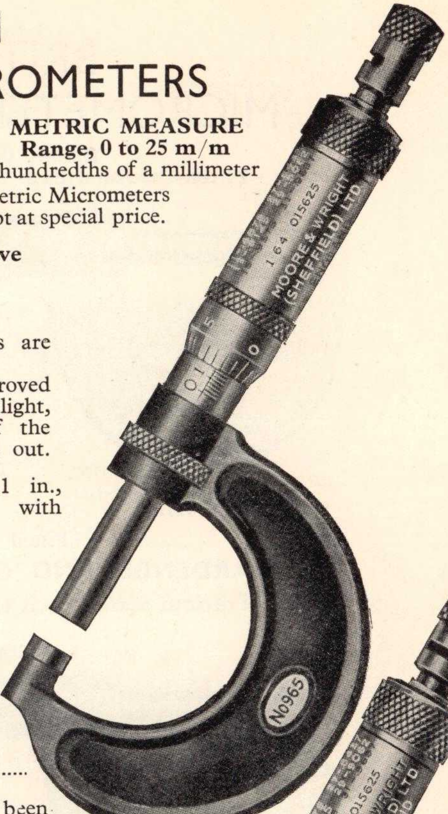
by thousandths of an inch by hundredths of a millimeter

Add M to No. when ordering Metric. Metric Micrometers are not supplied fitted with vernier, except at special price.

Hardened and Ground Screws give Double the Life.

No. **965.** Enamelled Plain Black. In this series the decimal equivalents are engraved on thimble, as shown. This is a Micrometer of much improved pattern, with a frame of girder I section, light, yet very strong. The proportions of the frame have been very carefully worked out.

No. **965**	Black Enamelled Frame, 0-1 in., graduated in thousandths, with ratchet and lock nut.	24/-	each.
No. **965D**	As above, but no ratchet	24/-	„
No. **965E**	„ „ and no lock nut	24/-	„
No. **965A**	As 965 but graduated in half-thousandths	25/6	„
No. **965B**	As 965, but reading in tenths of thousandths	29/6	„

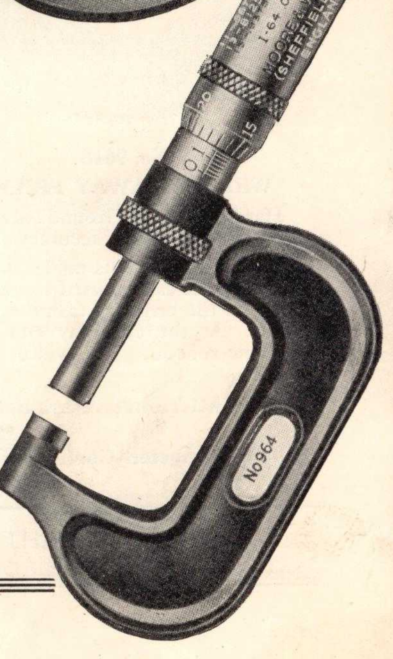


……

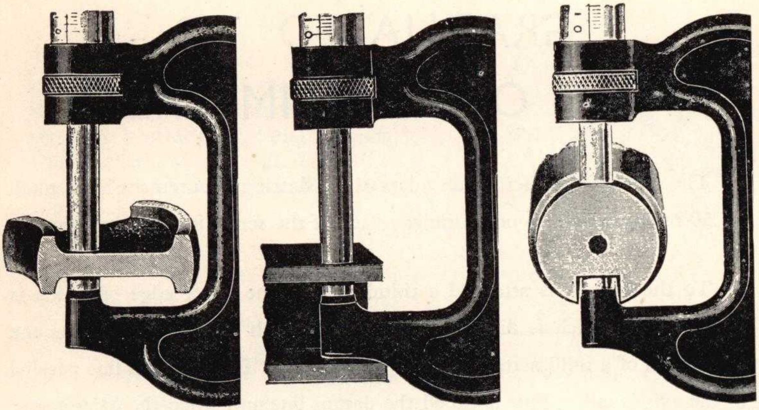
The pattern below, i.e., No. 964, has been designed to facilitate measuring in holes, over shoulders, etc. It will measure in many places where the ordinary pattern cannot be used (see sectional illustrations on next page). The frame is of girder section, strong, yet light.

No. **964**	Black Enamelled Frame, 0-1 in., graduated in thousandths, with ratchet and lock nut	24/-	each.
No. **964D**	As 964, but no ratchet	24/-	„
No. **964E**	„ „ and no lock nut	24/-	„
No. **964A**	As 964, but graduated in half-thousandths, with ratchet and lock nut	25/6	„
No. **964B**	As 964, but reading in tenths of thousandths	29/6	„

Tungsten-Carbide tipped Micrometers, see page 21.



PRECISION MICROMETERS



The above illustrations demonstrate the superiority of this type of frame, i.e., No. 964, for measuring in channels, over shoulders, in Keyways, etc., etc., places which are inaccessible to the ordinary Micrometer.

TUNGSTEN-CARBIDE TIPS.

Any Standard Flat Anvil Micrometers of 1″ capacity in this List may be fitted with Tungsten-Carbide tips at a cost of **38/6** per Micrometer extra.

THE CARE AND ADJUSTMENT OF MICROMETERS

The life of a Micrometer, i.e., the time it remains accurate, depends on the treatment it receives. It should, therefore, be kept clean when not in use, in the case supplied. When taking measurements see that there is no dirt between the anvil and the spindle faces.

Do not force the screw hard on to any surface—using the ratchet ensures an even pressure.

ADJUSTMENT.

The adjustment of M. & W. Micrometers is made by means of the friction sleeve which fits on the stem. Any looseness of the screw must first be taken up by the small adjusting nut, which will be found at the top of the split stem. Clean the faces of the anvil and spindle and bring them together carefully, and then by means of the spanner adjust the sleeve until the zero line comes exactly opposite the zero line on the thimble.

HOW TO READ A MICROMETER GRADUATED TO $\frac{1}{100}$ths OF A MILLIMETRE

The Screw in a Micrometer adapted to Metric measurement has a pitch of .50 m/m, thus, with one complete turn of the screw it advances .50m/m.

To the spindle is attached a thimble "A," the lower edge of which is bevelled and which is divided into 50 parts, each of which represents one hundredth of a millimetre. On the inner sleeve "B" a vertical line parallel to the axis is cut. This is called the datum line and when the Micrometer is closed the line on the thimble marked "O" coincides with it. This is zero and all measurements are calculated from it. The sleeve "B" is graduated with a number of transverse lines and with each complete revolution of the thimble a new transverse line comes into view, that is each transverse line above zero denotes an opening of the Micrometer of .50 m/m. It should be noted that the top row of graduations which represent m/m are numbered every 5th graduation, the bottom row of graduations sub-divide the m/m graduations and represent .50 m/m.

Suppose the thimble was screwed out to the position shown in Fig. 1, ten m/m graduations are shown and one .50 m/m graduation can be seen. On the thimble it is seen that the graduation 16 coincides with the datum line, therefore the reading is 10.00 m/m + .50 m/m + .16 m/m = 10.66 m/m.

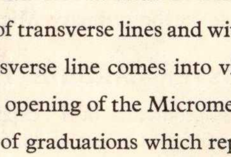
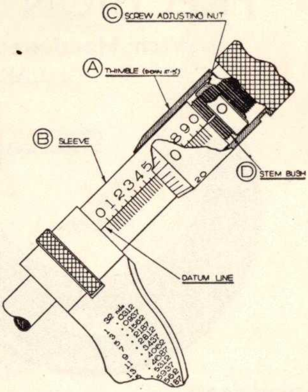


FIG. 1.

HOW TO READ A MICROMETER



A Micrometer is a gauge operated by means of a screw. This screw, in a Micrometer adapted to English measurement, has 40 threads to an inch, thus, with one complete turn of the screw it advances 1/40th of an inch. One fortieth of an inch equals 25 thousandths of an inch, i.e., 40/1000 =25 or .025″.

To the spindle is attached a thimble "A," the lower edge of which is bevelled and which is divided into 25 parts, each of which represents one-thousandth of an inch. On the inner sleeve "B" a vertical line parallel to the axis is cut. This is called the datum line and when the Micrometer is closed the line on the thimble marked "O" coincides with it. This is zero and all measurements are calculated from it. The sleeve "B" is graduated with a number of transverse lines and with each complete revolution of the thimble a new transverse line comes into view, that is each transverse line above zero denotes an opening of the Micrometer of .025″. Every fourth line is marked 1, 2, 3, 4, and so on. These figures represent tenths or one hundred thousandths of an inch. Suppose the thimble were screwed out so that graduation 2, and three additional sub-divisions were visible (as shown in Fig. 1), and that graduation 10 on the thimble coincides with the datum line on the sleeve. The reading would be 0.2000+.075 +0.010 or 0.285 inch.

HOW TO READ A MICROMETER

Graduated in 1/10,000″

To make a Micrometer read to ten thousandths of an inch it is provided with a Vernier which is graduated on the sleeve, and this is read in conjunction with the graduation on the thimble. On the sleeve are graduated ten divisions which occupy the same space as nine divisions on the thimble. It will be obvious therefore, that the difference in width between each division on the thimble and each division on the sleeve is one tenth of a graduation. As the graduations on the thimble are thousandths, the difference is therefore one-tenth of a thousandth. When, therefore, the graduated line on the thimble (i.e., the thousandth line) does not exactly coincide with the vertical line on the sleeve, it is necessary to note which is the first vernier line which coincides exactly with a graduated line on the thimble. If this is the first line, i.e., that line numbered 1, add one-tenth to the thimble reading, if the second vernier line is the first exactly to coincide, add two tenths, and so on up to nine tenths, after that the thimble reading gives the next complete thousandth. Anyone can familiarise himself with taking exact measurements after a few minutes' practice.

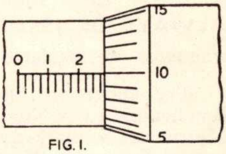


FIG. 1.

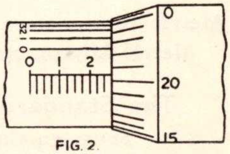


FIG. 2.

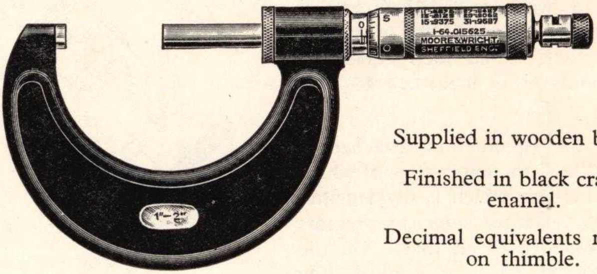
MOORE & WRIGHT (SHEFFIELD) LTD. ENGLAND

In the very first rank

BRITISH PRECISION MICROMETERS

With Hardened and Ground Screws

LARGE SIZES.



Supplied in wooden boxes.

Finished in black crackle enamel.

Decimal equivalents marked on thimble.

IMPORTANT.
See Note below and on page 20.

			Micrometer only.	Complete with Radial End Standards.	
No. **966**	Measuring from	1 in. to 2 in.	32/–	966X	36/6 each
No. **967**	,, ,,	2 in. to 3 in.	35/–	967X	40/6 ,,
No. **968**	,, ,,	3 in. to 4 in.	37/6	968X	44/3 ,,
No. **969**	,, ,,	4 in. to 5 in.	40/6	969X	48/3 ,,
No. **970**	,, ,,	5 in. to 6 in.	43/–	970X	52/3 ,,

For larger sizes see next page.

STANDARDS AND LARGE MICROMETERS

When buying large Micrometers it is recommended that a standard End Measuring Rod be purchased with each instrument, so that the setting can be checked each time before use. Where these tools are issued to operatives from the works' stores, **THE STANDARD SHOULD ALWAYS BE ISSUED WITH THE MICROMETER.** All M. & W. standards are insulated and are of full standard dimensions.

The above are all with Ratchet and Lock Nut. Supplied without Ratchet and Lock Nut at same price. Any of the above Micrometers except Metric can be marked with a vernier reading in ten-thousandths at an extra cost of 5/6 each. When required add B to the number, e.g., 968B.

Metric Micrometers at same price. Add "M" to No. when ordering.

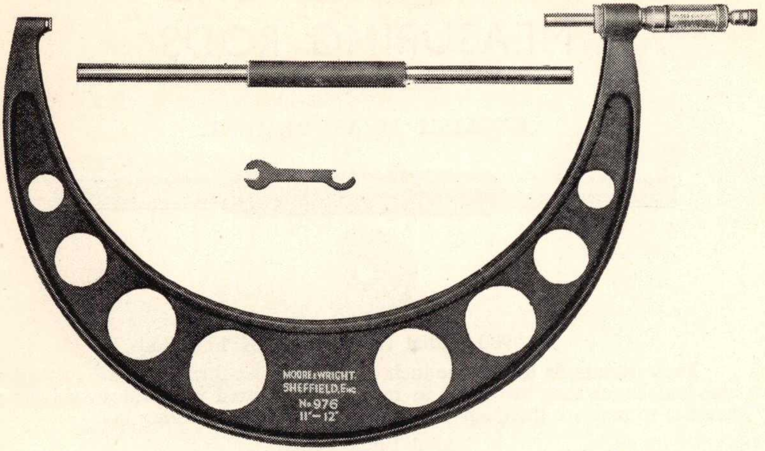
Metric Micrometers are not supplied with Verniers except at special price.

The Standards are full size with Insulated Grips.

Tungsten-Carbide tipped Micrometers, see page 21.

PRECISION MICROMETERS

Hardened and Ground Screws give Double the Life.



Supplied in wooden boxes.
Finished in black crackle enamel.
Decimal equivalents marked on thimble.

IMPORTANT.
See note on pages 18 and 20 about Standards and large Micrometers.

			Micrometer only.	Complete with Radial End Standards.		
No. **971**	Measuring from	6 in. to 7 in.	46/3	971X	56/6	each
No. **972**	,, ,,	7 in. to 8 in.	49/6	972X	60/9	,,
No. **973**	,, ,,	8 in. to 9 in.	53/9	973X	66/–	,,
No. **974**	,, ,,	9 in. to 10 in.	58/–	974X	71/6	,,
No. **975**	,, ,,	10 in. to 11 in.	62/6	975X	77/–	,,
No. **976**	,, ,,	11 in. to 12 in.	66/6	976X	82/–	,,

All sizes 12″ and over are insulated against the heat of the hand.
The following are made to order :—

No. **977**	Measuring from	12 in. to 13 in.	71/–	977X	87/9	each
No. **978**	,, ,,	13 in. to 14 in.	75/–	978X	92/9	,,
No. **979**	,, ,,	14 in. to 15 in.	79/6	979X	98/3	,,
No. **982**	,, ,,	15 in. to 16 in.	84/–	982X	104/–	,,
No. **983**	,, ,,	16 in. to 17 in.	88/–	983X	109/–	,,
No. **984**	,, ,,	17 in. to 18 in.	94/9	984X	121/9	,,
No. **985**	,, ,,	18 in. to 19 in.	101/–	985X	133/3	,,
No. **986**	,, ,,	19 in. to 20 in.	107/6	986X	142/6	,,

The above are all with Ratchet and Lock Nut. Supplied without Ratchet and Lock Nut at same price. Any of the above Micrometers, **except Metric,** can be marked with a vernier reading in ten-thousandths at an extra cost of 5/6 each. When required, add B to the number, e.g. 968B.

Metric Micrometers at same price. Add "M" to No. when ordering.

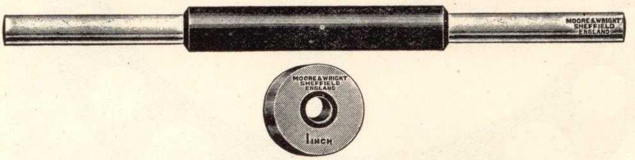
Metric Micrometers are not supplied with Verniers except at special price.

The Standards are full size with Insulated Grips

Tungsten-Carbide tipped Micrometers, see page 21.

STANDARD END MEASURING RODS

ENGLISH MEASUREMENT.



No. **980** Radial Ends. No. **981** Flat Ends.

These standards in the one inch size are in disc form. In the two inch size and larger they are made as rods and are fitted with vulcanized fibre handles to insulate them against the heat of the hand during use.

Radial Ends stocked.

Flat Ends made to order.

		No. 980 Radial Ends.	No. 981 Flat Ends.
1 inch	Disc	**4/6**	**5/6** each
2 „	Rod	**5/6**	**6/6** „
3 „	„	**6/9**	**8/–** „
4 „	„	**7/9**	**9/3** „
5 „	„	**9/3**	**11/–** „
6 „	„	**10/3**	**12/3** „
7 „	„	**11/3**	**13/6** „
8 „	„	**12/3**	**14/9** „
9 „	„	**13/6**	**16/3** „
10 „	„	**14/6**	**17/6** „
11 „	„	**15/6**	**18/6** „
12 „	„	**16/9**	**20/–** „
13 inch	Rod	**17/9**	**21/3** each
14 „	„	**18/9**	**22/6** „
15 „	„	**20/–**	**24/–** „
16 „	„	**21/–**	**25/3** „
17 „	„	**27/–**	**32/6** „
18 „	„	**32/3**	**38/6** „
19 „	„	**35/–**	**42/–** „
20 „	„	**37/6**	**45/–** „
21 „	„	**40/6**	**48/6** „
22 „	„	**43/–**	**51/6** „
23 „	„	**45/9**	**55/–** „
24 „	„	**48/6**	**58/3** „

The Rod Standards are made with radial or flat ends.

Hardened and lapped.

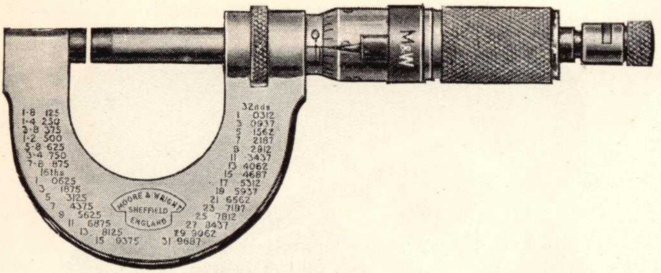
Metric Standards are supplied at the same prices as above for the same relative lengths.

Notice referred to on Page 18.

STANDARDS AND LARGE MICROMETERS

When buying large Micrometers it is recommended that a standard End Measuring Rod be purchased with each instrument, so that the setting can be checked each time before use. Where these tools are issued to operatives from the works' stores, **the Standard should always be issued with the Micrometer.** All M. & W. standards are insulated and are of full standard dimensions.

MICROMETERS WITH TUNGSTEN-CARBIDE TIPS



Any Standard Flat Anvil Micrometer 1 inch and upwards can be fitted with Tungsten-Carbide tips at a cost of **38/6** per Micrometer extra. Micrometer heads so fitted are **19/3** each extra.

NOTE.—When Micrometers with Tungsten-Carbide tips are ordered place 1 before the ordinary number, e.g., No. 961 with T.C. tips becomes 1961.

These Prices apply only to Standard Micrometers having flat anvils and spindle ends. For other shapes, viz., ball, conical, set-down, etc., special quotations will be given.

●

SERVICE DEPARTMENT

We have a fully-equipped Service Department for the repair and maintenance of Micrometers at reasonable rates.

Estimates on request.

When replacement parts are required for any Micrometers it is essential that the complete tool be returned to the works for the part to be fitted, as in some cases the parts are made to suit the particular Micrometer.

●

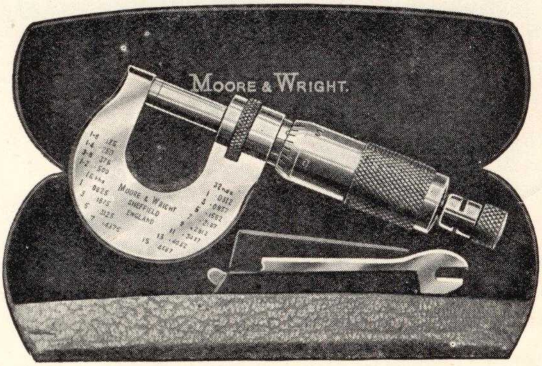
ENGRAVING

Names and titles of firms can be engraved on Micrometers at a small charge.

BRITISH PRECISION MICROMETERS

With Hardened and Ground Screws

"Brings them near perfection"

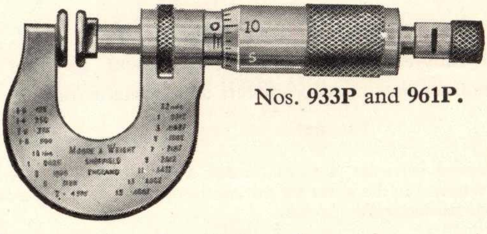


No. **933**

No. **933**	As illustration, 0-½″, graduated in 1000ths with ratchet and locknut, in leather-covered steel case ..	**24**/–	each
No. **933B**	As above, but with vernier to read in 1/10,000ths ..	**29**/**6**	„
No. **933E**	As No. 933 but without ratchet and no locknut ..	**24**/–	„

Decimal equivalents on frame.

MICROMETER for Paper and Soft Materials



Nos. **933P** and **961P.**

This Micrometer is made with large flanges for measuring paper, cloth, silk, rubber, and any soft materials. Measures in thousandths.

No. **933P**	0-⅜″ capacity	**32**/–	each
No. **961P**	0-⅞″ „	**43**/–	„

Any of the above can be supplied in Metric (except 933B). Add M to No. when ordering.

TUBE MICROMETERS

With Ball Anvil

ENGLISH MEASURE
Range, 0 to 1″
by thousandths of an inch

or

METRIC MEASURE
Range, 0 to 25 m/m
by hundredths of a millimeter

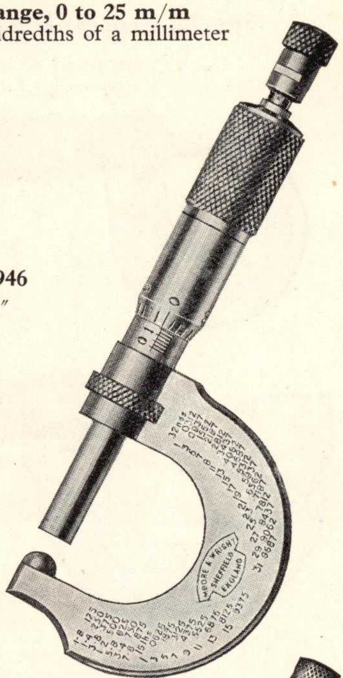
Special Process Hardened and Ground Screws

This Micrometer is similar to No. 961, except that it has a ball anvil and cut-away frame to enable it to be used to measure the wall of tubing and the like measurements. Will enter a $\frac{3}{8}$″ hole or tube.

No. **946** Measuring in thousandths, decimal equivalents on frame with Ratchet and Locknut.

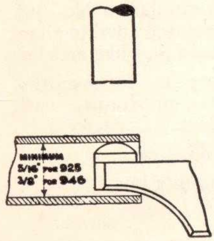
Price **36/6**

Packed one in a box.



No. **946**
0-1″

For TUBING, ETC.



0 to .5″ Cat. No. 925
0 to 1.0″ Cat. No. 946

ENGLISH MEASURE
Range, 0 to $\frac{1}{2}$″
by thousandths of an inch

or

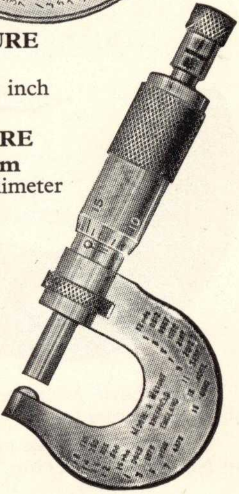
METRIC MEASURE
Range, 0 to 13 m/m
by hundredths of a millimeter

No. 925

Tube Micrometer, 0-$\frac{1}{2}$″ capacity. Goes into $\frac{5}{16}$″ hole. Ball anvil. Marked in thousandths.

Price .. **24/-** each.

The above can be also supplied in Metric. Add M to No. when ordering.

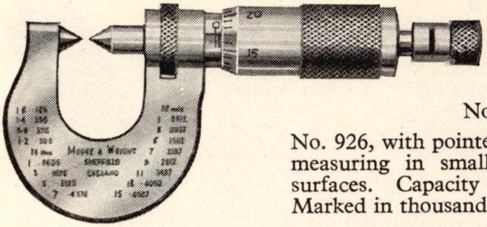


MICROMETERS

WITH POINTED ANVIL AND SPINDLE

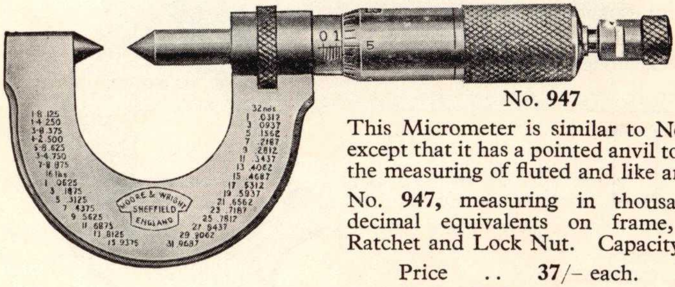
Special Process Hardened and Ground Screws

are fitted to all these Micrometers.



No. 926

No. 926, with pointed spindle and anvil for measuring in small recesses and curved surfaces. Capacity 0-$\frac{9}{32}''$.
Marked in thousandths .. **26/-** each.



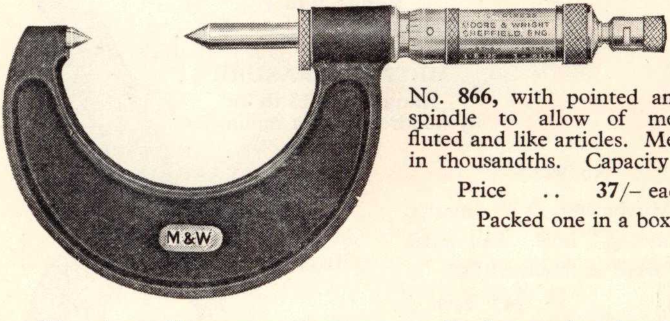
No. 947

This Micrometer is similar to No. 961 except that it has a pointed anvil to allow the measuring of fluted and like articles.

No. **947,** measuring in thousandths, decimal equivalents on frame, with Ratchet and Lock Nut. Capacity 0-$\frac{3}{4}''$.

Price .. **37/-** each.

Packed one in a box.



No. **866,** with pointed anvil and spindle to allow of measuring fluted and like articles. Measuring in thousandths. Capacity 1″-$1\frac{3}{4}''$.

Price .. **37/-** each.

Packed one in a box.

The above Micrometers have not needle-sharp points but are very slightly truncated.

Any of the above can be supplied in Metric 1/100 m/m. Add M to No. when ordering.

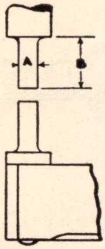
MICROMETERS

With specially-shaped Spindle Ends and Anvils.

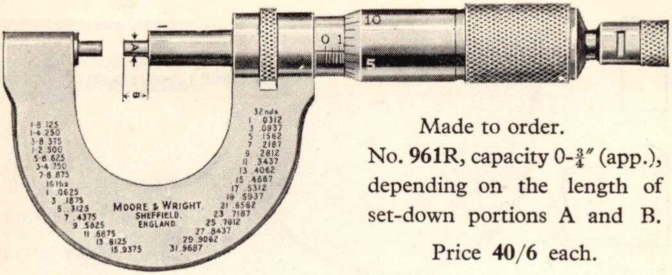
All fitted with

Special Process Hardened and Ground Screws

For SPLINES, RECESSES, ETC.



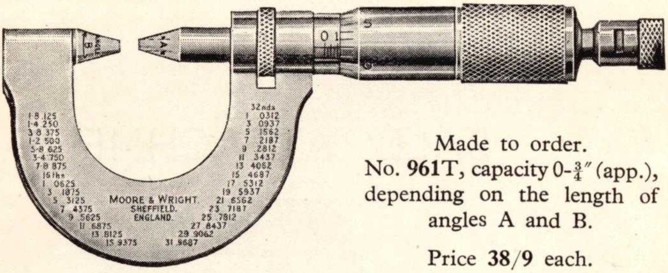
When ordering specify sizes A and B.



Made to order.
No. **961R**, capacity 0-¾″ (app.), depending on the length of set-down portions A and B.

Price **40/6** each.

For SPLINES, ETC.

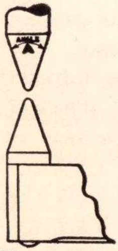


Made to order.
No. **961T**, capacity 0-¾″ (app.), depending on the length of angles A and B.

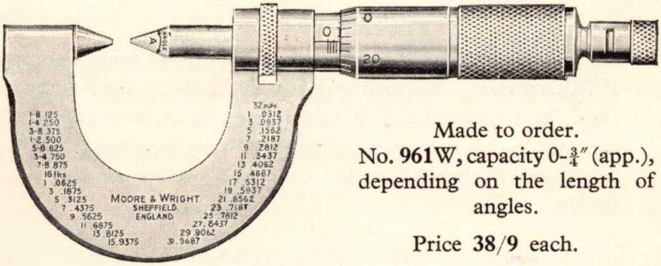
Price **38/9** each.

When ordering specify sizes A and B.

For FLUTED ARTICLES.



When ordering specify angle A.



Made to order.
No. **961W**, capacity 0-¾″ (app.), depending on the length of angles.

Price **38/9** each.

Any of the above can be supplied in Metric 1/100 m/m. Add M to No. when ordering.

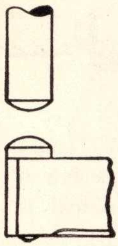
MICROMETERS

With Specially Formed Spindle-ends and Anvils.

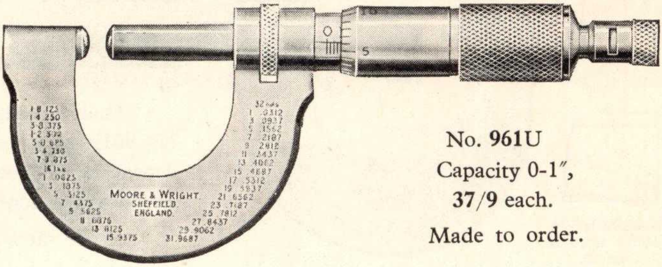
Fitted with

Special Process Hardened and Ground Screws

For
CURVED
ARTICLES



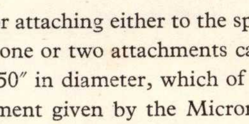
When
Ordering add
"U" to
Catalogue No.



No. **961U**
Capacity 0-1″,
37/9 each.
Made to order.

Can also be supplied in Metric. Add M to No. when ordering.

BALL ATTACHMENT



No. **878**

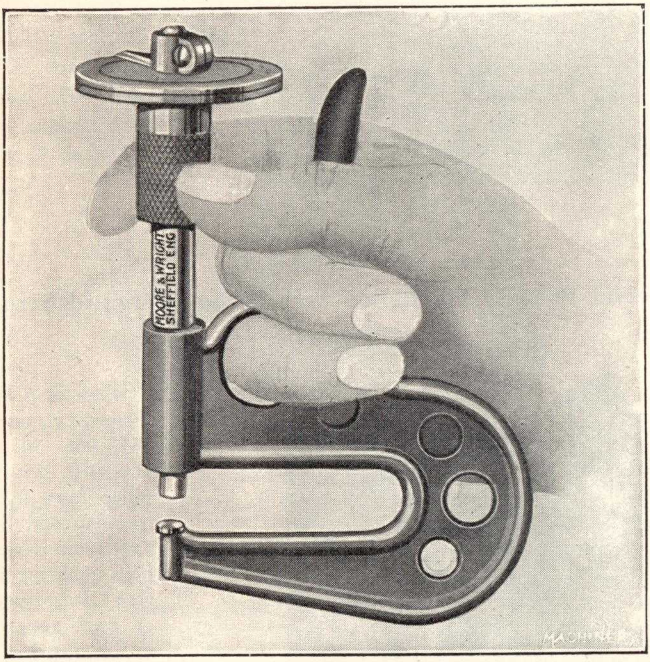
The above device is for attaching either to the spindle or anvil of standard 1″ Micrometers. Either one or two attachments can be used at once. The ball is hardened and is .250″ in diameter, which of course must be deducted from the actual measurement given by the Micrometer reading. The ball is movable in the cage so as to ensure a perfect contact with the anvil or spindle.

The ball in No. **878M** (Metric) is 6.5 m/m diameter.

No. **878** price **2/3** each. Fitting Spindles 6.8 m/m diam.
„ **878M** „ **2/3** „ „ „ 6.8 m/m „

Horizontal Type, Direct Reading and Quick Acting
MICROMETER

No. 938



This Micrometer is fitted with an Eight Start Screw giving a range of ¼″. As only one revolution of the screw is used the complete capacity of the tool can be read on the dial direct. Used with one hand only, leaving the other free for holding the work. Dial, 3″ diameter.

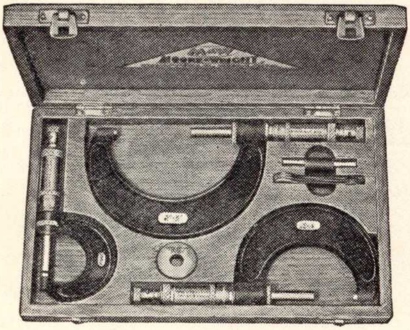
		£	s.	d.
No. 938/1	Frame 1½″ deep, capacity ¼″	**4**	**17**	**0**
No. 938/2	„ 2⅜″ „ „ ¼″	**4**	**17**	**0**
No. 938/6	„ 6″ „ „ ¼″	**4**	**17**	**0**

Reading in thousandths. Made to order.

The Screw in this Micrometer is not hardened.

MICROMETERS IN CASES

The Cases are of polished Oak, strong, and of good appearance.

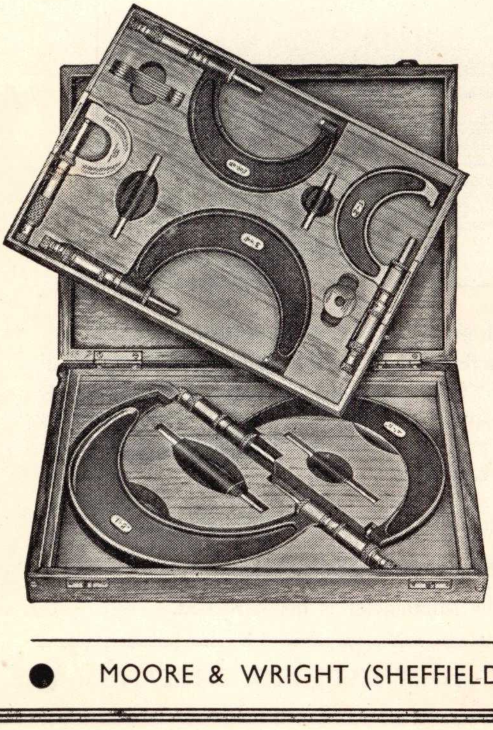


No. **1021** Consists of 1 Micrometer each, 961, 966 and 967, complete with Standards and Keys .. **£6/3/-**

No. **1025** Consists of 1 Micrometer each, 965, 966 and 967, complete with Standards and Keys, as illustrated. **£5/12/-**

These Micrometers are fitted with

Special Process Hardened and Ground Thread Screws



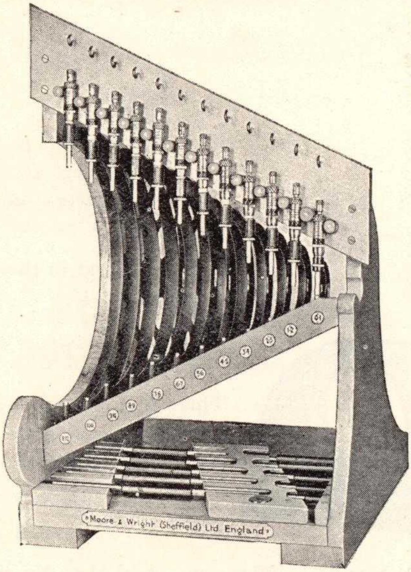
No. **1024** Case of 6 Micrometers, i.e., one each 961, 966, 967, 968, 969, 970, covering a range from 0 to 6″, complete with Standards and Keys, in high quality polished Oak Case, strong and of good appearance, as illustrated. **£14/5/9**

No. **1024B**, as above but with all Micrometers marked to read in ten thousandths. **£15/18/9**

Any other assortment of micrometers can be supplied at proportionate prices.

TOOL-ROOM SET OF MICROMETERS

No. 1035.



The above set consists of 12 Micrometers, viz. :—one each 1″ to 12″, Nos. 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975 and 976, and is an admirable set for the tool-room or engineers' shop.

The Micrometers all read in thousandths of an inch.

Eleven end measures from 1″ to 11″, inclusive, are provided and are housed in the lower rack.

The rack itself is of solid oak, and rubber buffers are fitted between the instruments to prevent injury when removing or replacing them. Above each tool is a hook for the workman's check.

The size of the rack is approximately 25¼″ high, 16⅞″ wide, and 16½″ deep from back to front.

All the Micrometers are fitted with Ratchet Stop and Locknut.

PRICE .. **£36/14/6,** complete as above.

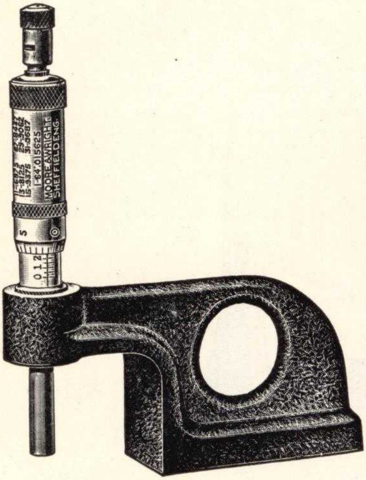
The above Set can also be supplied with a No. 961 Micrometer instead of a No. 965, at **£37/5/6,** complete.

METRIC MEASURE. No. **1035M**

The Set is also furnished ranging from 0 to 300 m/m at the same price, reading in hundredths of a millimetre.

No. 461. SURFACE GRINDER MICROMETER

Special Process Hardened and Ground Screw.



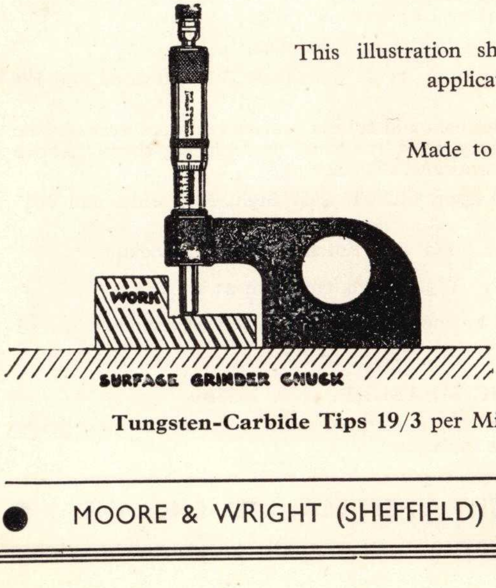
This Micrometer is for use on the surface grinder for measuring the thickness of work while it is still on the machine.

It is graduated in thousandths and has a capacity of 1″.

No. **461** .. Price .. **35/-** each.

This Micrometer is fitted with a hardened steel plate on base. The end of the spindle is slightly rounded.

Also supplied in Metric 1/100 m/m. Add M to No. when ordering.



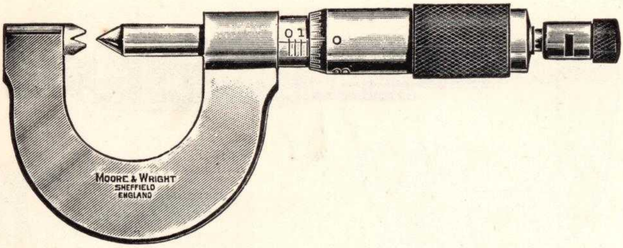
This illustration shows its general application.

Made to order.

Tungsten-Carbide Tips 19/3 per Micrometer **extra.**

SCREW GAUGE MICROMETERS

Special Process Hardened and Ground Screw



In Screw Thread Micrometers the end of the spindle is pointed and the anvil is of V form. When measuring threads only the angle of the point and the sides of the V anvil come into contact with the thread, thus the pitch diameter is measured, i.e., the full diameter less the depth of one thread. The actual reading on the Micrometer is the pitch diameter.

These Micrometers are made as follows :—

No.	Capacity. Inches.	Range.		Form of Thread.	£	s.	d.
450	0–½	48 to 64	Threads	U.S. or Whitworth ..	2	8	6
452	0–1	8 to 13	,,	,, ..	2	8	6
453	0–1	14 to 20	,,	,, ..	2	8	6
454	0–1	22 to 30	,,	,, ..	2	8	6
455	0–1	32 to 40	,,	,, ..	2	8	6
456	1–2	4½ to 7	,,	,, ..	2	13	9
457	1–2	8 to 13	,,	,, ..	2	13	9
458	1–2	14 to 20	,,	,, ..	2	13	9
459	1–2	22 to 30	,,	,, ..	2	13	9

The ½″ and 1″ are supplied with bright frames, the 2″ are supplied with black enamelled frames. Made to order.

NOTE ON THREAD MICROMETERS.

Although Thread Micrometers are rapid and convenient in use, they have certain definite limitations.

It is only when the Micrometer is set to a standard Thread Plug and used for measuring threads having the same pitch and diameter as that plug, that they are correct.

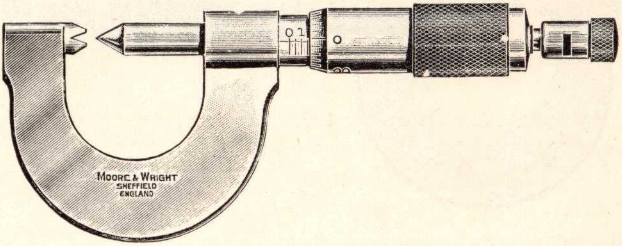
When not set to a plug in this manner there is always a slight amount of distortion, depending on the Helix angle of the thread being measured.

When set to a standard thread plug, it will be noticed that the reading is not exactly at Zero when the spindle and anvil are brought together.

The only method to ensure a Thread Micrometer giving correct measurements is to have a separate Micrometer for every size of thread being measured. This, of course, is impossible and therefore the small amount of error inherent in Thread Micrometers must be allowed for.

SCREW GAUGE MICROMETERS

Special Process Hardened and Ground Screw



In Screw Thread Micrometers the end of the spindle is pointed and the anvil is of V form. When measuring threads only the angle of the point and the sides of the V anvil come into contact with the thread, thus the pitch diameter is measured, i.e., the full diameter less the depth of one thread. The actual reading on the Micrometer is the pitch diameter.

These Micrometers are made as follows :—

No.											
675M	Capacity	0–25m/m	Range	0.4	to	0.6	inclusive	..	2	8	6
676M	„	„	„	0.75	„	1.0	„	..	2	8	6
677M	„	„	„	1.25	„	1.75	„	..	2	8	6
678M	„	„	„	2.0	„	3.0	„	..	2	8	6
679M	„	25-50m/m	„	1.25	„	1.75	„	..	2	13	9
680M	„	„	„	2.0	„	3.0	„	..	2	13	9

The ½″ and 1″ are supplied with bright frames, the 2″ are supplied with black enamelled frames. Made to order.

NOTE ON THREAD MICROMETERS.

Although Thread Micrometers are rapid and convenient in use, they have certain definite limitations.

It is only when the Micrometer is set to a standard Thread Plug and used for measuring threads having the same pitch and diameter as that plug, that they are correct.

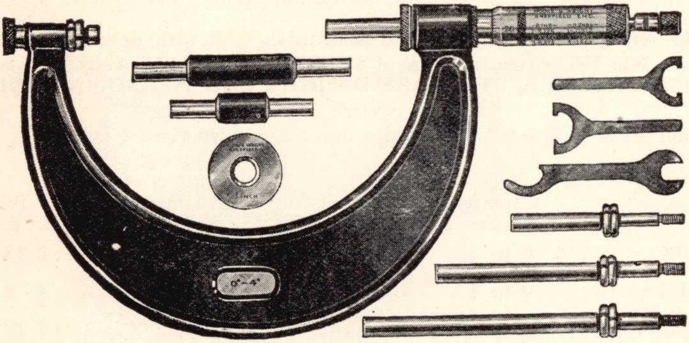
When not set to a plug in this manner there is always a slight amount of distortion, depending on the Helix angle of the thread being measured.

When set to a standard thread plug, it will be noticed that the reading is not exactly at Zero when the spindle and anvil are brought together.

The only method to ensure a Thread Micrometer giving correct measurements is to have a separate Micrometer for every size of thread being measured. This, of course, is impossible and therefore the small amount of error inherent in Thread Micrometers must be allowed for.

MOORITE ADJUSTABLE PRECISION MICROMETERS
for
Motor Engineering Service

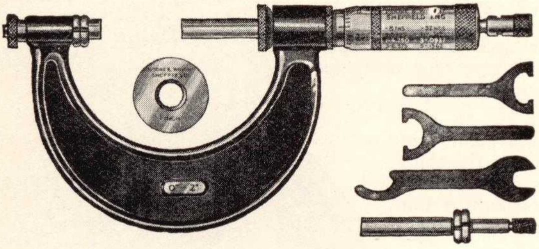
Special Process Hardened and Ground Thread Screws



Set No. **941X**

All these Micrometers are sent out in Polished Cases as shown on next page.

Prices on next page.



Set No. **940X**

Micrometers reading in thousandths will always be sent unless Metric is definitely ordered, in which case please add M to the number.

PRICES AND DESCRIPTION OF

ADJUSTABLE MICROMETERS

These Micrometers have a range of measurement from two to four times greater than the ordinary Micrometer with fixed anvil. This large range is obtained by the use of separate anvils which are accurately fitted to the frame and are readily interchangeable. All sizes up to 6 inches have drop forged steel frames, while larger sizes have frames of carefully-chosen malleable grey iron. Decimal equivalents in thousandths of an inch are marked on the thimbles of the English reading, but not on Metric Micrometers.

The sets are sent complete with standards. All with Ratchet-Stop and Lock Nut. The standards are of **SUBSTANTIAL SIZE AND ARE ALL INSULATED, i.e., THEY ARE DEFINITE END MEASURING RODS.**

Each set is supplied complete in a finished wooden Case.

No.	Capacity. Inches.	Number of Standards.	Number of Interchangeable Anvils.	Price. £	s.	d.
940X	0 to 2	1	2	2	13	6
941X	0 to 4	3	4	4	0	0
942X	2 to 6	4	4	4	19	6

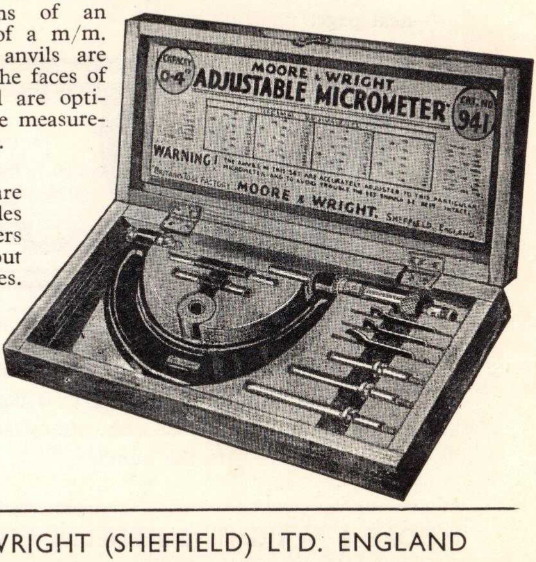
These Micrometers are not supplied with verniers reading in tenths of thousandths.

These Micrometers cover the measurements given in thousandths of an inch or hundredths of a m/m. The interchangeable anvils are accurately fitted and the faces of the spindle and anvil are optically flat and give true measurements at any opening.

Decimal equivalents are marked on the thimbles of the Micrometers reading thousandths but not on the metric ones.

Instructions for Adjustment

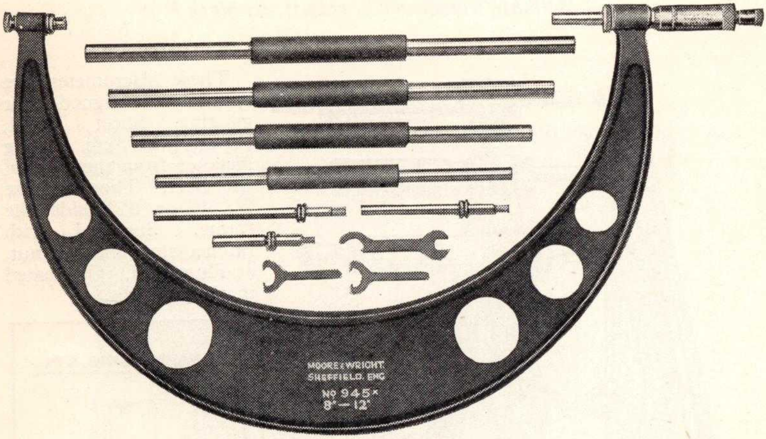
Adjustment must be made by the sleeve and not by the nuts on the anvils.



ADJUSTABLE MICROMETERS

LARGE SIZES

Description on page 00.



The sets are sent complete with standards. All with Ratchet-Stop and Lock Nut. The standards are of **SUBSTANTIAL SIZE AND ARE ALL INSULATED, i.e. THEY ARE DEFINITE END MEASURING RODS.** Each set is supplied complete in a finished wooden Case.

No.	Capacity. Inches.	Number of Standards.	Number of Interchangeable Anvils.	Price.		
				£	s.	d.
943X	4 to 8	4	4	**5**	**18**	**0**

The sizes below are made to order :—

No.	Capacity. Inches.	Number of Standards.	Number of Interchangeable Anvils.	£	s.	d.
944X	6 to 10	4	4	**6**	**4**	**0**
1044X	6 to 12	6	6	**9**	**2**	**9**
945X	8 to 12	4	4	**6**	**9**	**0**

All sizes 948X and larger, are fitted with insulating studs against the heat of the hand.

No.	Capacity. Inches.	Number of Standards.	Number of Interchangeable Anvils.	£	s.	d.
948X	12 to 16	4	4	**8**	**1**	**6**
949X	16 to 20	4	4	**9**	**19**	**0**
951X	20 to 24	4	4	**11**	**16**	**6**
1032X	18 to 24	6	6	**16**	**8**	**0**

These Micrometers are not supplied with verniers reading in tenths of thousandths.

These Micrometers cover the measurements given in thousandths of an inch or hundredths of a m/m.

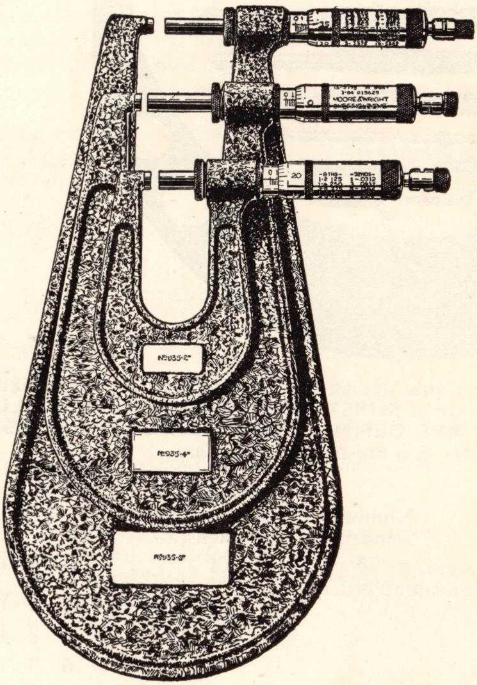
Decimal equivalents are marked on the thimbles of the Micrometers reading thousandths but not on the metric ones.

Adjustment must be made by the sleeve and not by the nuts on the anvils.

MICROMETER WITH DEEP FRAME

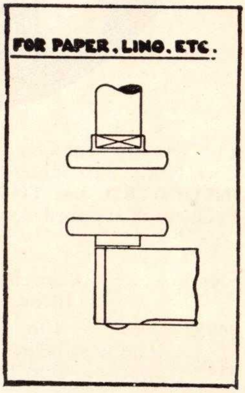
With Hardened and Ground Thread Screws

“Delicate touch with robust strength.”



No. 935

These Micrometers are specially designed for gauging Sheet Metal, Paper, Fibre, etc., a long distance from the edge of the sheet. They will take 2″, 4″ or 6″ inside the frame. Supplied with ratchet stop and locknut, as illustrated. Graduated in thousandths.



No. 936 as No. 935 but with flanges for use on paper, linoleum and soft materials, prices below.

No. **935/2**	with frame 2″ deep, capacity	0 to $\frac{1}{2}$″	.. ..	Price **35/6** each.
No. **935/4**	„ 4″ „ „	0 to 1″	.. ..	„ **41/6** „
No. **935/6**	„ 6″ „ „	0 to 1″	.. ..	„ **48/6** „
No. **936/2**	„ 2″ „ „	0 to $\frac{7}{16}$″	approx.	„ **43/6** „
No. **936/4**	„ 4″ „ „	0 to $\frac{7}{8}$″	„ ..	„ **49/6** „
No. **936/6**	„ 6″ „ „	0 to $\frac{7}{8}$″	„ ..	„ **56/6** „

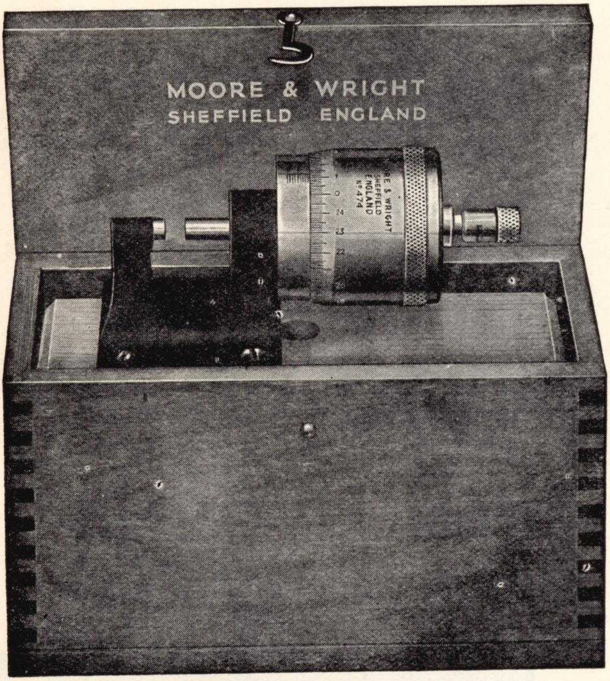
Metric Micrometers supplied at the same price as above. Add “M” to number when ordering.

No. 935 can be supplied with ball anvil at **1/4** extra.

Tungsten Carbide-tipped Micrometers, see page 21.

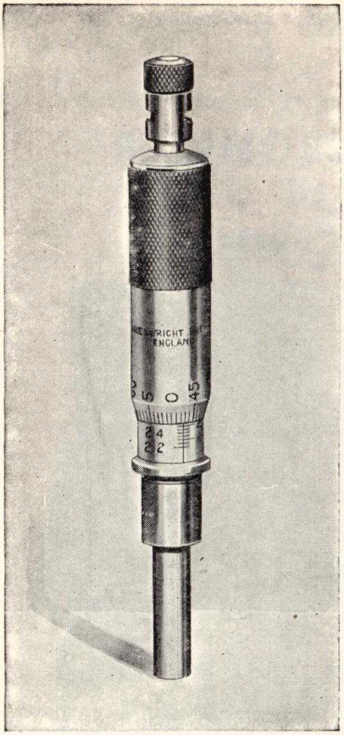
BENCH MICROMETER

No. **474**



This Micrometer will be found useful for all fine bench work. It reads direct in ten-thousandths of an inch and the graduations are clearly cut to ensure easy reading. Made to order only.

No. **474**	Capacity 0-½″, diam. of thimble 1½″, reads direct in ten-thousandths	£4 12 9
No. **476**	Capacity 0-1″, dia. of thimble 3″, reading in ten-thousandths	£4 12 9



MICROMETER HEADS

for

BORING BAR MACHINES

No. 465

We make these heads for all popular makes of Boring Bar Machines and shall be glad to quote on receipt of specification.

Made to order only.

Supplied in bright steel or chrome plate finish.

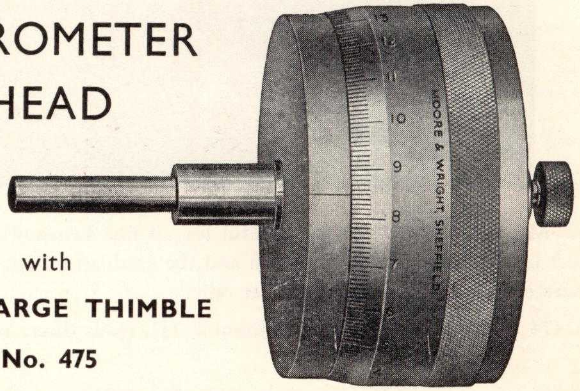
The hardened and ground screw gives a robust yet delicate strength not possible by any other method of manufacture.

MICROMETER HEAD

with

VERY LARGE THIMBLE

No. 475

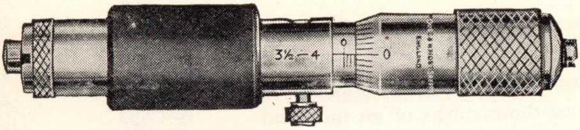


These heads are made for fitting to machines where accurate, direct reading is desired. The reading is in tenths of thousandths, the thimble is 3″ in diameter, thus allowing the graduations to be widely spaced and easily readable. Reading 0–1″ by tenths, size $4\frac{1}{4}$″ long. Made to order.

Price .. 80/9 each, dull chrome plated.

TUBULAR INSIDE MICROMETERS

No. **783**



These Inside Micrometers are very handy to use, being made of tubing; they are strong and light, as the measuring anvils are ground to a radius they are adapted for measuring either flat or curved surfaces. Each Micrometer, except the two smaller sizes (2½-3″ and 3-3½″) is fitted with a fibre insulation to prevent expansion due to hand heat.

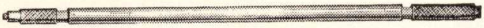
No.	Range, Inches	Price Each
783	*2 to 2½	
	2½ to 3	
	3 to 3½	1/7/0
	3½ to 4	
	4 to 4½	
	4½ to 5	
	5 to 6	
	6 to 7	
	7 to 8	1/9/9
	8 to 9	
	9 to 10	
	10 to 11	1/10/6
	11 to 12	

* This size has no clamp screw.

Metric Micrometers at same price for same relative size add M. to number when ordering.

Made to order only.

	£	s.	d.
No. **784**—Set of 7 Micrometers measuring 2″ to 6″, in wooden Case	10	7	9
No. **785**—Set of 13 Micrometers measuring 2″ to 12″, in wooden Case	20	10	0



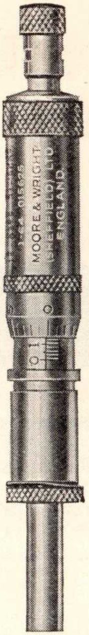
		£	s.	d.
No. **786**—Handle for using with small sizes ..	each	0	1	4

MICROMETER HEADS

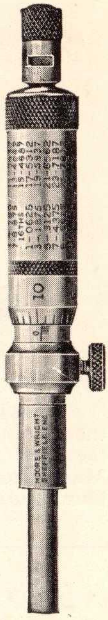
With Hardened and Ground Screws

Micrometer Heads are used for fixing to Tools and Machines for obtaining fine measurements. The graduations are in one-thousandths of an inch and the heads are fitted with Ratchets and Lock-nuts. They can be supplied without Ratchets and Locknuts at same price.

Nos. 952 and 953 have ½″ barrel.
,, 954 ,, 955 ,, ⅜″ ,,



No. 952



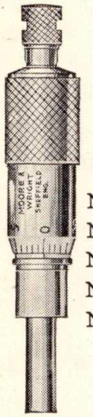
No. 954

One Inch Capacity.

No. **952**	As illustrated 1″ range, barrel ½″ dia., ¾″ long each head	17/3
No. **952B**	As above, but marked with vernier reading 1/10,000ths . .	22/9
No. **953**	For use as Depth Gauges or for attaching to same . .	17/3
No. **954**	As illustration, ⅜″ barrel, ¾″ long	20/–
No. **954B**	In 1/10,000ths	25/6
No. **955**	As No. 954 but for use as depth gauge	20/–

Tungsten Carbide tips 19/3 per head, **extra.** See page 21.

If Metric are required add M to No.
Vernier markings on Metric are only supplied at special price.


MOORE & WRIGHT SHEFFIELD ENG.

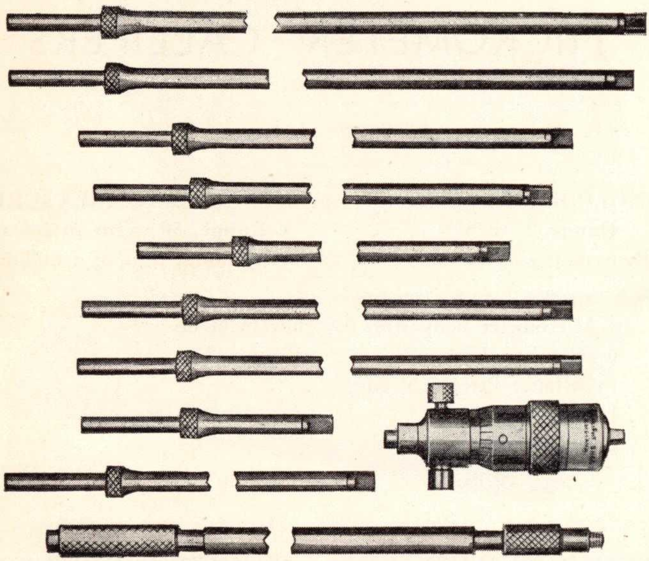
MICROMETER HEADS

Half-inch capacity.

		Each
No. **897**	Half-inch head, in thousandths	**16/–**
No. **897B**	,, ,, in ten thousandths	**21/6**
No. **898**	,, ,, in thousandths, for Depth gauge . .	**16/–**
No. **899**	,, ,, Metric 1/100 m/m	**16/-**
No. **900**	,, ,, ,, ,, for Depth gauge . .	**16/–**

INSIDE MICROMETER CALLIPERS

Hardened Thread Ground Screws, all measuring faces properly hardened and lapped.



No. 903

The above illustration shews our Inside Micrometer Calliper. It is of well balanced design for taking internal and linear measurements, setting and comparing gauge dimensions, etc.

The essential parts of this Micrometer Set are the extension rods each marked with capacity, a micrometer head with ½″ movement, and a distance piece 0.500″ long. By assembling the requisite rod and distance piece, any size within the capacity of the Set may be obtained. Remember in setting that all joining faces must be clean and also see that the Zero mark on the rods is in line with the Zero mark on the body, as it is only when the rods are in this position that the accuracy of the set is guaranteed.

The extension rods are adjusted to this set only, and it is imperative that this set be kept intact. In other words, these extension rods cannot be used with another micrometer head as they are adjusted as present.

Adjustment on the micrometer head may be made by means of the friction sleeve and on the extension rods by the small anvils which are screwed in at the extremities. The distance pieces supplied in all our inside micrometer sets are dead to size and should not be altered.

A handle is supplied for use with this set and should be fitted into the handle screw opposite the locking screw. Do not remove the handle screw from the body as this provides a shield against dirt ingress.

The contact faces which are hardened, are radial in form.

FOR PRICES AND PARTICULARS SEE NEXT PAGE.

INSIDE

MICROMETER CALLIPERS

ENGLISH MEASURE	**or**	**METRIC MEASURE**
Range, 2″ to 8″		**Range, 50 m/m to 200 m/m**
by thousandths of an inch		by hundredths of a millimeter

No. **902**, capacity 2″ to 8″, consists of :—

1 Micrometer body with 0.5″ movement of screw.
6 Extension Rods.
1 Distance Piece, 0.5″ long.
1 Adjusting Key.
1 Extension Handle.

Price .. 35/- each, in Case.

ENGLISH MEASURE	**or**	**METRIC MEASURE**
Range, 2″ to 12″		**Range, 50 m/m to 300 m/m**
by thousandths of an inch		by hundredths of a millimeter

No. **903**, capacity 2″ to 12″, consists of :—

1 Micrometer body with 0.5″ movement of screw.
10 Extension Rods.
1 Distance Piece, 0.5″ long.
1 Adjusting Key.
1 Extension Handle.

Price .. 43/- each, in Case.

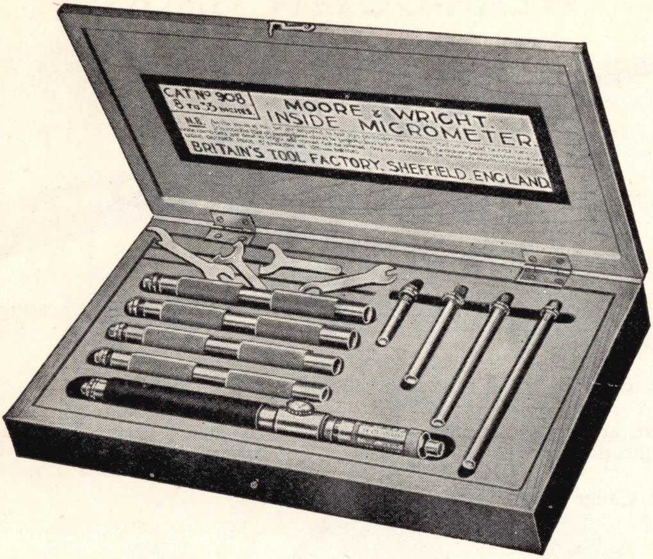
IMPORTANT.—As the Anvils of this set are adjusted to suit each particular Micrometer, each set should be kept intact. In building up it is essential that all joining faces should be perfectly clean.

All Anvils and measuring faces are radial.

Add M to No. if Metric are required.

INSIDE MICROMETER CALLIPER

FOR LARGE MEASUREMENTS.



ENGLISH MEASURE or METRIC MEASURE

Hardened Thread Ground Screws, all measuring faces properly hardened and lapped.

The illustration shows our Inside Micrometer No. 908 designed for taking Internal Measurements, Setting Gauges, etc. Capacity 8″ to 33″.

It is of robust design and is **easily and positively adjustable** on both Anvils and Micrometer Sleeve.

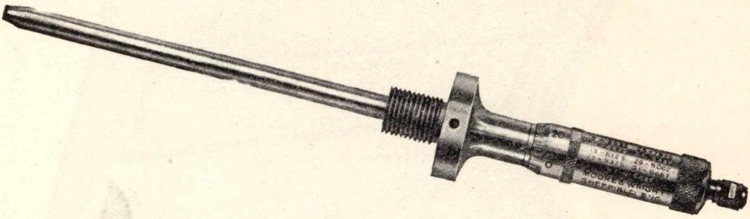
The Sets are made up as specified below :—		Each.
No. **904**—1	Micrometer body with 1″ movement of Screw, 5 adjustable anvils and 4 adjusting Keys, measuring 8—13″	**43/-**
No. **905**—1	ditto as above with the addition of one 5″ distance piece, measuring 8—18″	**48/-**
No. **906**—1	ditto as above with the addition of two 5″ distance pieces, measuring 8—23″	**54/-**
No. **907**—1	ditto as above with the addition of three 5″ distance pieces, measuring 8—28″	**59/-**
No. **908**—1	ditto as above with the addition of four 5″ distance pieces, measuring 8—33″	**64/6**

Each Set complete in wooden box.

IMPORTANT.—As the Anvils of this set are adjusted to suit each particular Micrometer, each set should be kept intact. In building up it is essential that all joining faces should be perfectly clean.

Add M to No. if Metric is required.

TURBINE WEAR-DOWN GAUGES



No. 895

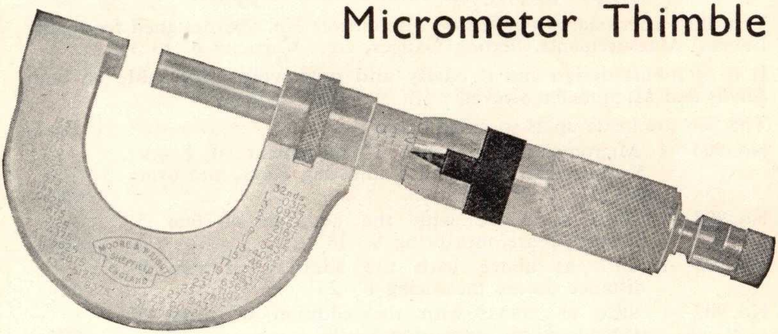
These Gauges are for measuring the "wear-down" of Turbine bearings and similar work.

The screwed portion is $\frac{1}{2}''$ dia. × 20 T.P.I. and $\frac{5}{8}''$ long.

There are many varieties and we prefer to quote prices on receipt of specification.

Each Gauge is supplied in Wooden Case.

INDICATING CLIP for Micrometer Thimble

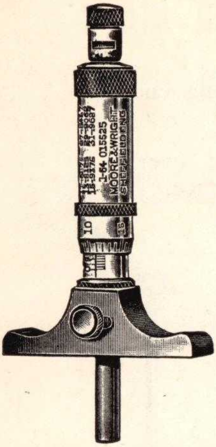


No. 877

This Indicating Clip shown above is an extremely useful attachment to any Micrometer. It avoids confusion and eye-strain and ensures instantaneous reading with certainty.

Price .. **3d.** each.

DEPTH GAUGE MICROMETER



Hardened and Ground Screw

No. **890**

This Gauge has a 1 inch movement of the screw, and will be found very useful in measuring grooves, holes or cavities.

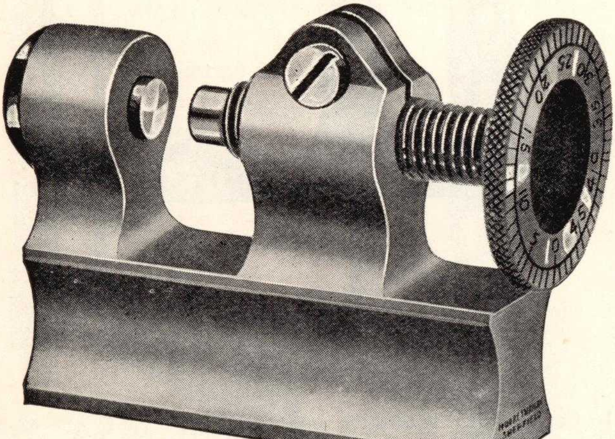
Diameter of spindle 6.8 m/m ; size of base 2½″ × ½″.

It reads up to 1 inch, and has decimal equivalents marked on the thimble. It is a strong and rigid tool and is adjustable for wear.

No. **890** Price .. **35/–**

Made to order.

ROLLING MILL MICROMETERS



Nos. 178, 179.—These Micrometers are made very robust for use in rolling mills. They will stand very hard wear. The screw and dial is in one piece and they are provided with ample adjustment. Made with brass bodies.

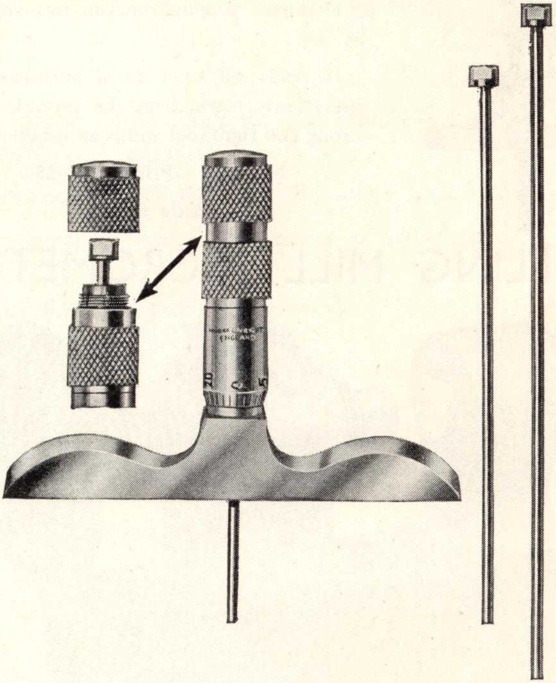
No. **178**	Brass body, short base, capacity 0–½″	.. ..	**18/–** each.
No. **179**	„ „ long „ „ 0–½″	.. ..	**19/6** „

The Screws in Nos. 178 and 179 are not ground after hardening.

DEPTH GAUGE MICROMETERS

Rods are hardened at measuring end and are easily interchangeable.

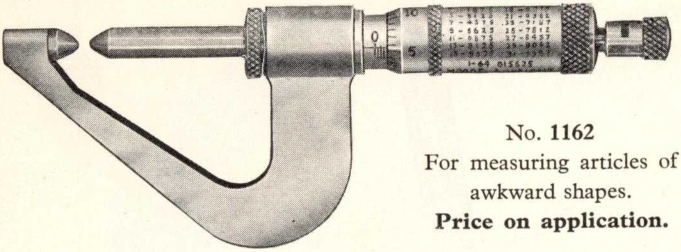
Base is hardened, ground all over, and lapped on the measuring face.



No. **891**	Capacity 0–3″ with three rods. Base 2½″	**48/6** each.
No. **892**	„ 0–3″ with three rods. Base 4″	**59/–** „
No. **893**	„ 0–6″ with six rods. Base 2½″	**59/–** „
No. **894**	„ 0–6″ with six rods. Base 4″	**70/–** „

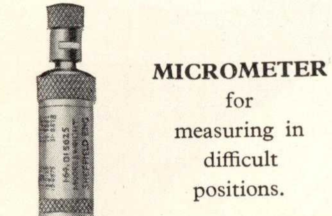
MICROMETERS FOR SPECIAL PURPOSES

We are prepared to make special Micrometers for a large variety of purposes and shall be pleased to make suggestions on receipt of particulars. The following illustrations shew a few of the many we have made :—

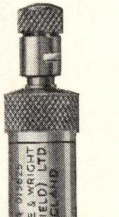


No. **1162**
For measuring articles of awkward shapes.
Price on application.

MICROMETER
for
measuring in
difficult
positions.



HUB MICROMETER

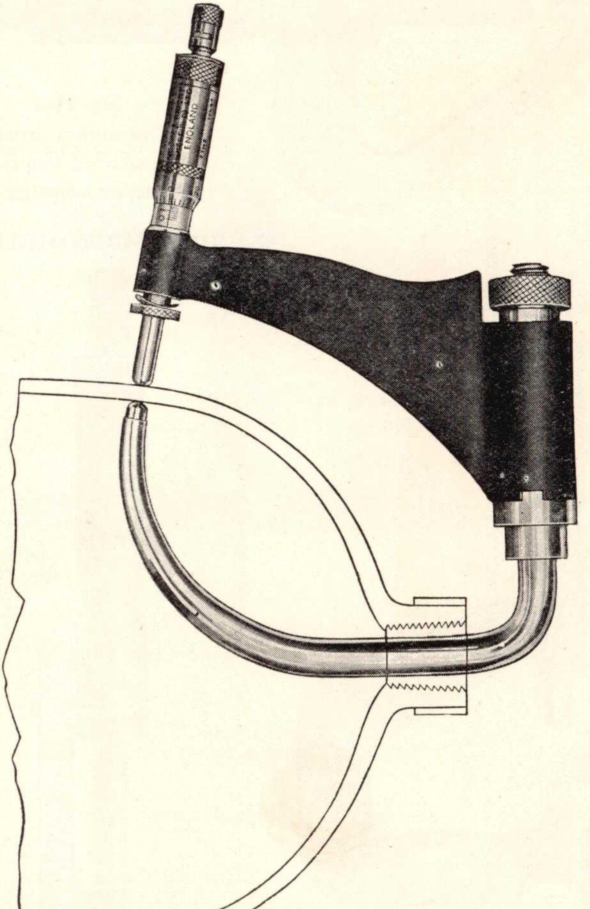


No. **1160** **Price on application.** No. **939** **Price on application**

SPECIAL MICROMETERS

This Micrometer was designed for measuring the wall-thickness of bottles, steel containers, etc. The measurement is taken in position, and the lower arm is swung out of position to remove the instrument.

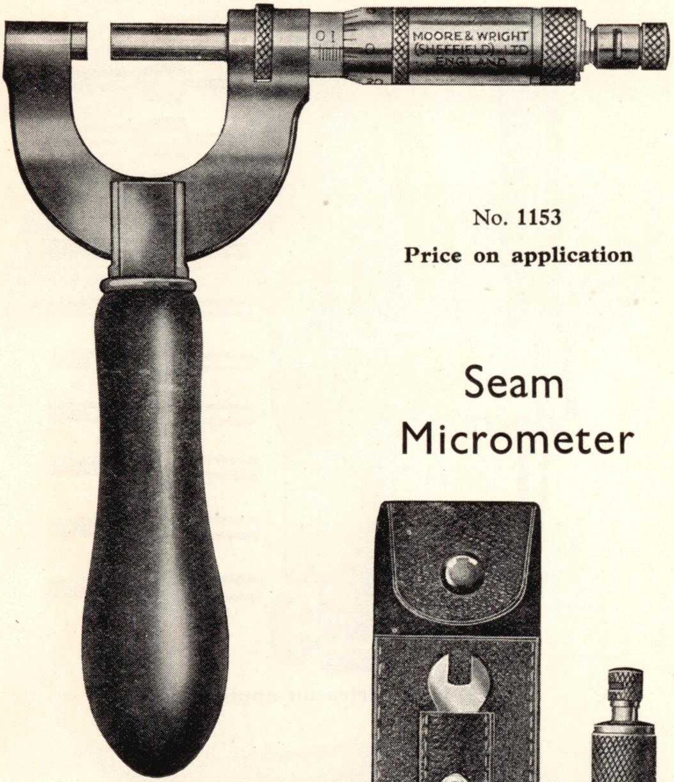
Let us submit designs for instruments to solve your difficult measuring problems.



No. 1165 **Price on application**

SPECIAL MICROMETERS

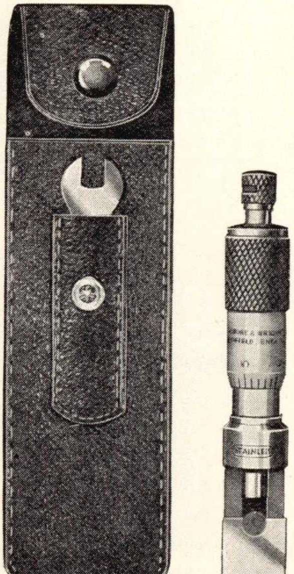
With wooden handle for gauging hot metal. Many modifications may be made to suit customers' requirements.



No. **1153**

Price on application

Seam Micrometer



For measuring seams of Metal Boxes, Containers, etc.

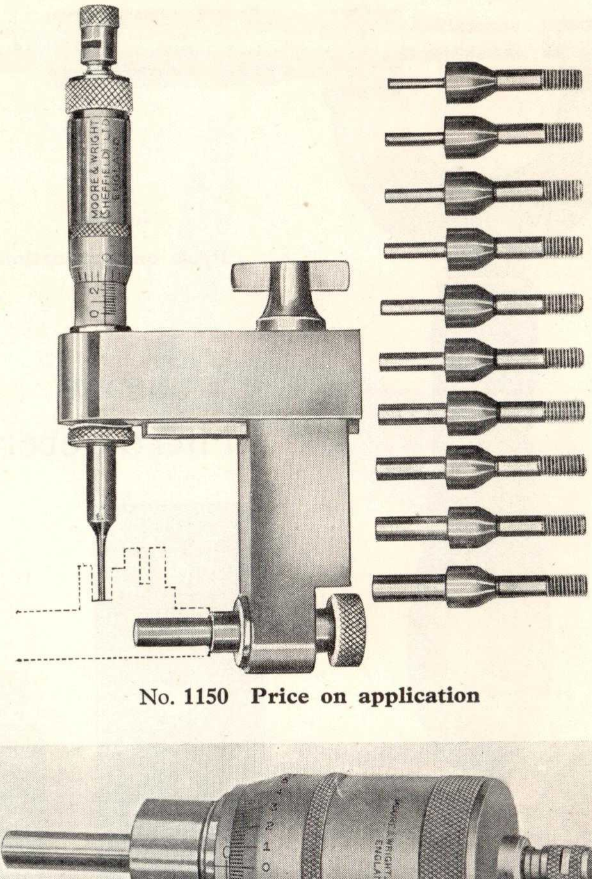
No. **1152**

Price on application

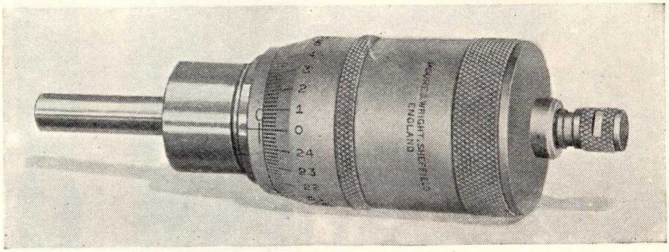
SPECIAL MICROMETERS

SPECIAL KEY MICROMETER

Fully universal and complete, with anvil to fit most keys.



No. **1150** **Price on application**



No. **477**

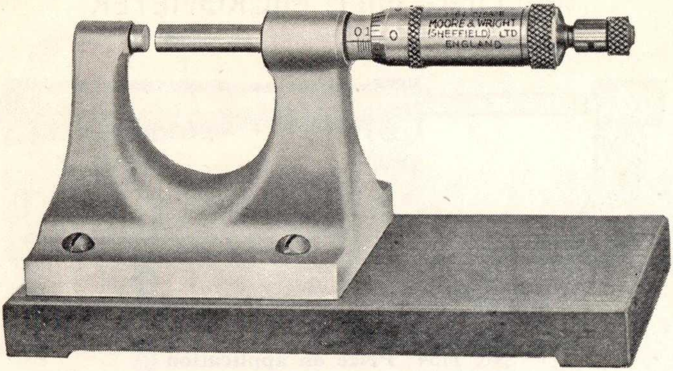
Special large head for fixing to precision jigs, fixtures, etc.
Sleeve and thimble is of dull chrome finish.

Price on application

SPECIAL MICROMETERS

BENCH MICROMETER

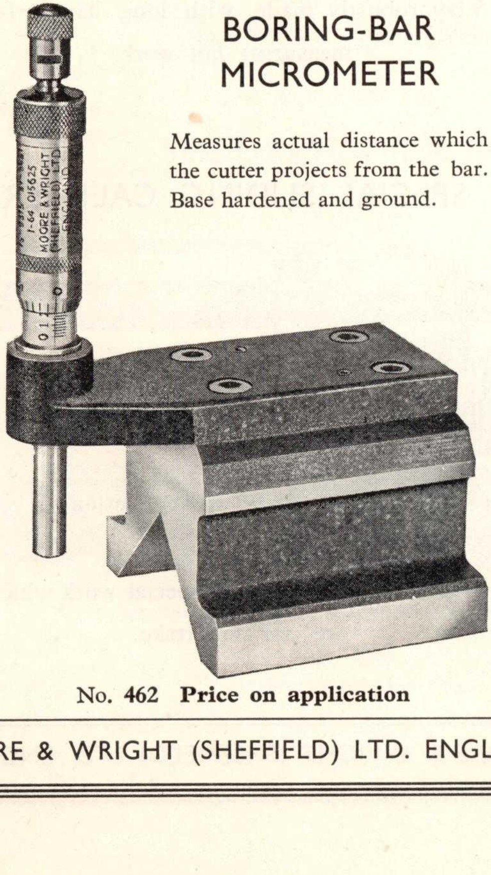
for Inspection Rooms, etc.



On hardwood base.
No. **478** **Price on application**

BORING-BAR MICROMETER

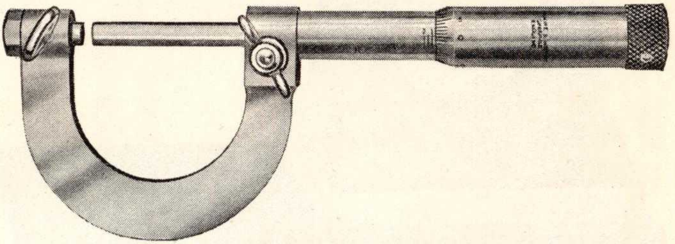
Measures actual distance which the cutter projects from the bar. Base hardened and ground.



No. **462** **Price on application**

SPECIAL MICROMETERS

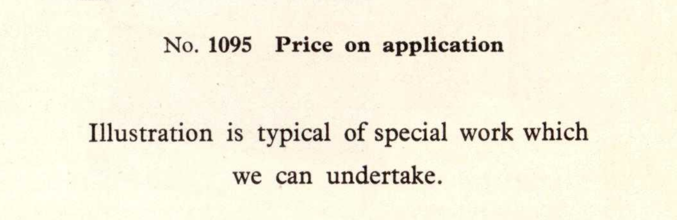
ROLLING MILL MICROMETER



No. **1154** **Price on application**

Very robustly made, with long handle for measuring hot work.

SPECIAL SLIDING CALLIPER



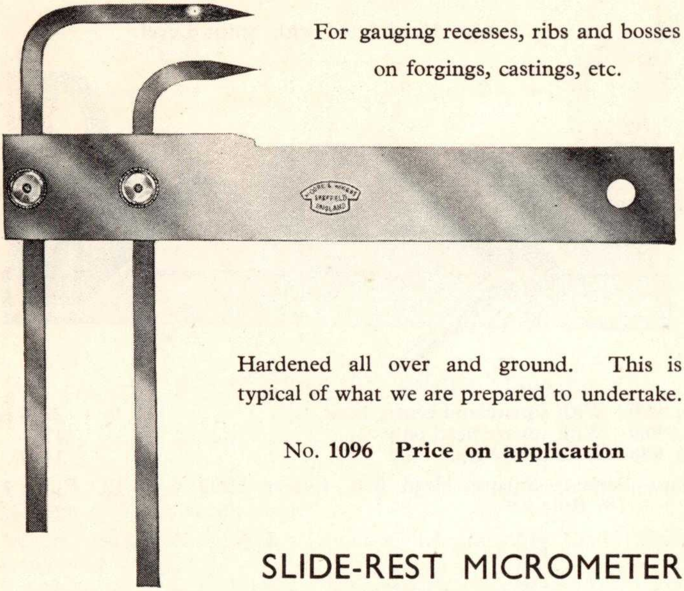
No. **1095** **Price on application**

Illustration is typical of special work which we can undertake.

SPECIAL GAUGES & MICROMETERS

ADJUSTABLE FORGING GAUGE

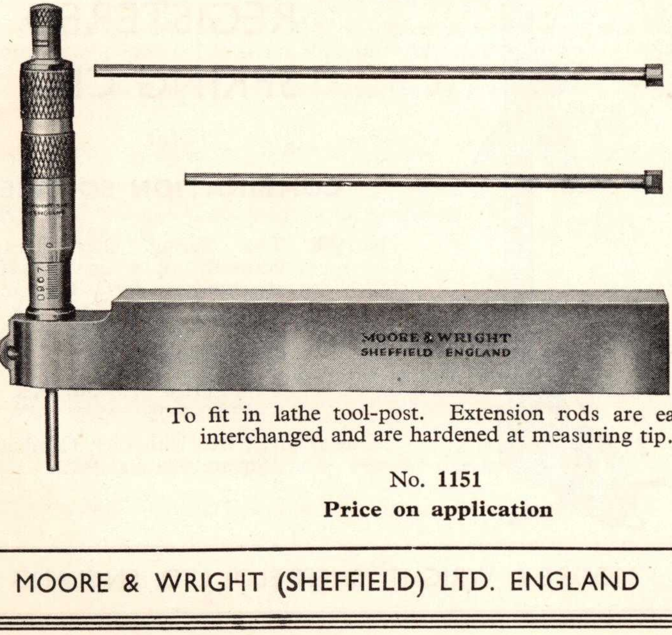
For gauging recesses, ribs and bosses on forgings, castings, etc.



Hardened all over and ground. This is typical of what we are prepared to undertake.

No. **1096** **Price on application**

SLIDE-REST MICROMETER



To fit in lathe tool-post. Extension rods are easily interchanged and are hardened at measuring tip.

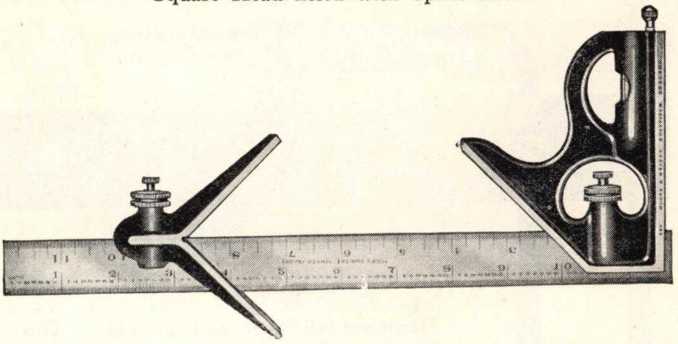
No. **1151**

Price on application

BRITISH COMBINATION SQUARES

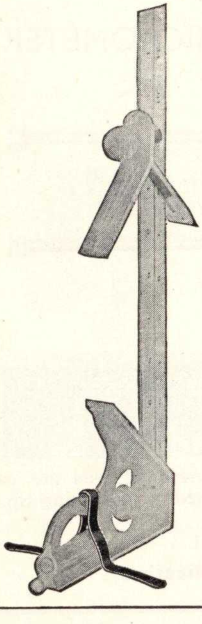
DROP FORGED STEEL HEADS
HARDENED & TEMPERED BLADES

Square Head fitted with Spirit Level



		12″	18″
No. **990**	With square and centre head	**17/9**	**22/6** each.
No. **989**	With square head only	**12/–**	**17/–** ,,
No. **988**	With centre head only	**10/–**	**14/9** ,,

Spare Parts :—Square Head **8/6**, Centre Head **6/6**, 12″ Rule **4/9**, 18″ Rule **9/–**.



REGISTERED SPRING CLIP

for

COMBINATION SQUARES

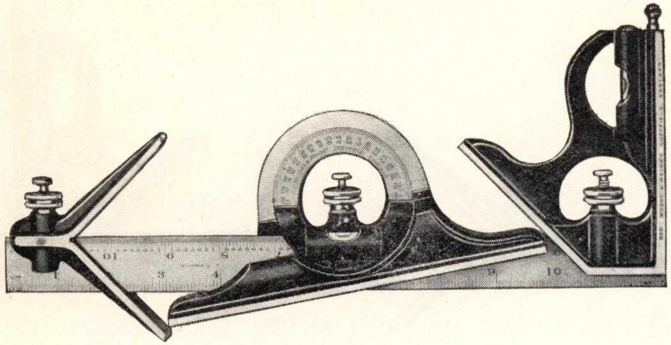
No. **998** The Spring Clip illustrated herewith is a most desirable attachment for Combination Squares. With its use the square stands upright and is not easily knocked over.

Price .. **3d.** each.

One is given free with each Combination Square 990 and 992.

BRITISH COMBINATION SETS

with or without Protractor Heads



ALL DROP FORGED STEEL HEADS

Complete with Spring Clip shown on Page 54.

The revolving turrets in the protractors are graduated to read from zero to 180° and read in both directions.

New reversible bolt is now fitted on all models and allows the blade to be easily inserted.

A Level is fitted to both square and protractor heads.

The rule is perfectly graduated, is hardened and tempered, and is an accurate straight edge. The heads slide smoothly on the groove.

Special care has been bestowed on the graduations.

		12″	18″
No. 988P	With centre head, protractor and rule..	**28/6**	**32/3** each.
No. 989P	With square head, protractor and rule..	**30/6**	**34/3** „
No. 990P	With square head, centre head, protractor and rule	**36/3**	**40/3** „
No. 990P/1	Rule and protractor only	**22/-**	**26/3** „

Spare Parts :—Square Head **8/6**, Centre Head **6/6**, Protractor **17/9**, 12″ Rule **4/9**, 18″ Rule **9/-**.

RULE GRADUATIONS.

"A" 8ths, 16ths, 32nds, 64ths.

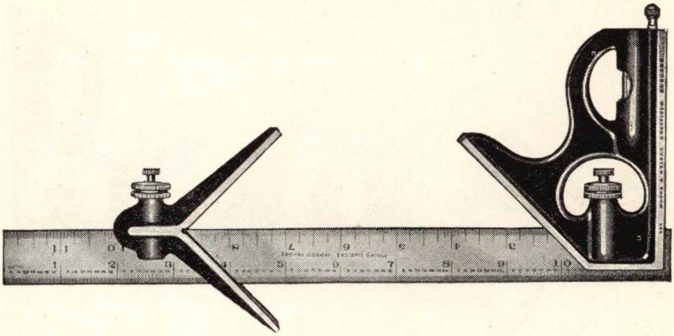
"B" 16ths, 32nds, 64ths, 100ths.

"M.&E." 1 side in $\frac{1}{2}$ m/m and 32nds. Reverse side in m/m and 64ths.

Graduation "A" will always be sent unless otherwise ordered.

BRITISH COMBINATION SQUARES

Complete with Spring Clip shown on Page 54.



HARDENED DROP FORGED HEADS

		12″	18″	
No. **992**	With square and centre head	**21/6**	**25/9**	each.
No. **991**	With square head only	**14/6**	**18/9**	„
No. **993**	With centre head only	**12/3**	**16/9**	„

Each square head is fitted with level and scriber.

The heads are drop forged and hardened, and are practically unbreakable.

The rules are hardened and tempered.

The working faces are wide and are guaranteed accurate.

New reversible bolt is fitted on all models.

Spare Parts :—Square Head **10/9**, Centre Head **8/6**, 12″ Rule **4/9**, 18″ Rule **9/-**.

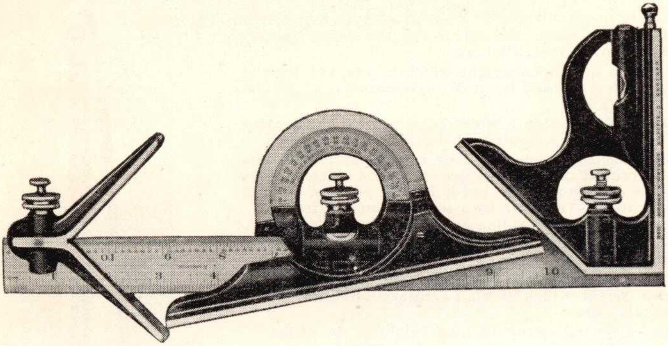
RULE GRADUATIONS.

"A"	8ths, 16ths, 32nds, 64ths.
"B"	16ths, 32nds, 64ths, 100ths.
"M.&E."	1 side in ½ m/m and 32nds. Reverse side in m/m and 64ths.

Graduation "A" will always be sent unless otherwise ordered.

BRITISH COMBINATION SETS

with or without Protractor Heads



WITH HARDENED DROP FORGED STEEL HEADS

Complete with Spring Clip shown on Page 54.

The revolving turrets in the protractors are graduated to read from zero to 180° **and read in both directions.**

All the working faces are hardened.

New reversible bolt is fitted on all models and allows the blade to be easily inserted.

A level is fitted to both square and protractor heads.

The rule is perfectly graduated, is hardened and tempered, and is an accurate straight edge. The heads slide smoothly on the groove.

Special care has been bestowed on the protractor graduations.

		12″	18″	
No. **992P**	Complete Set with Protractor, square head, centre head and Rule	**40/–**	**44/9**	each.
No. **992P/1**	Rule and Protractor only	**25/9**	**30/–**	,,
No. **993P**	With centre head, Protractor and Rule	**33/3**	**37/9**	,,
No. **991P**	With square head, Protractor and Rule	**36/–**	**40/–**	,,

Spare Parts :—Square Head **10/9**, Centre Head **8/6**, Protractor **21/6**, 12″ Rule **4/9**, 18″ Rule **9/–.**

RULE GRADUATIONS.

"A"	8ths, 16ths, 32nds, 64ths.
"B"	16ths, 32nds, 64ths, 100ths.
"M.&E."	1 side in ½ m/m and 32nds. Reverse side in m/m and 64ths.

Graduation "A" will always be sent unless otherwise ordered.

MOORITE
UNIVERSAL SURFACE GAUGE

No. 405

This Gauge is made throughout of the finest quality materials by experienced labour.

It has a base of proper weight which is grooved both at the end and bottom, and is equally usable on flat or circular work.

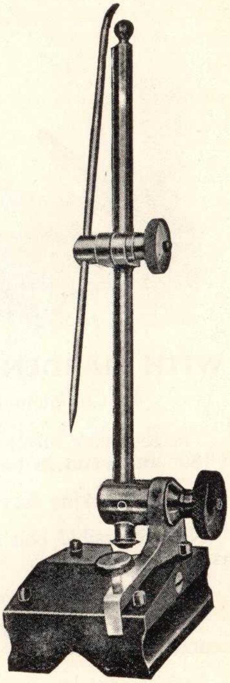
It is adjustable through a wide range, and all the moving adjusting parts are accurately made to ensure rigidity.

The sensitive adjustment is both smooth and firm, and in the improved design does not depend for its stability on two pointed screw-ends, but is held in position AGAINST THE FLAT SIDE OF THE SLOT by a screw of ample size.

The improved sleeve holding the scriber has now a ¼ in. diameter hold for holding dial indicator rod. See section illustration.

The case-hardened steel base has four frictionally-held pins, the use of which is an advantage on linear work, scribing, etc., etc.

The sizes given represent the total height of the gauge.



	Prices :	Each
No. 405A	3″ base, 9″ high	20/-
No. 405B	3″ base, with 2 spindles, giving 9″ and 12″ high, respectively	22/-
No. 405C	3″ base, 12″ high	21/-

Packed one in a **Wooden Box.**

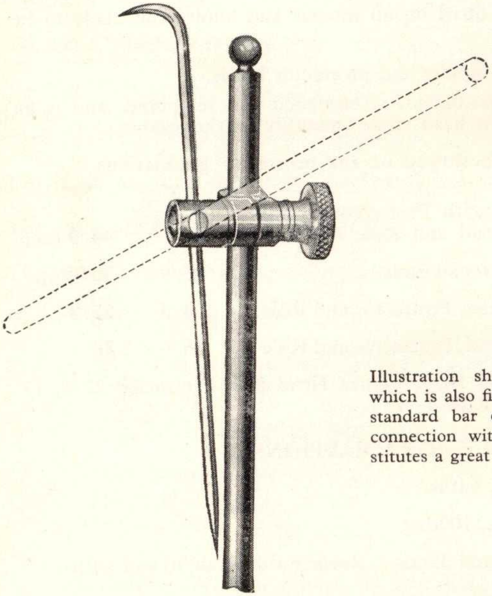
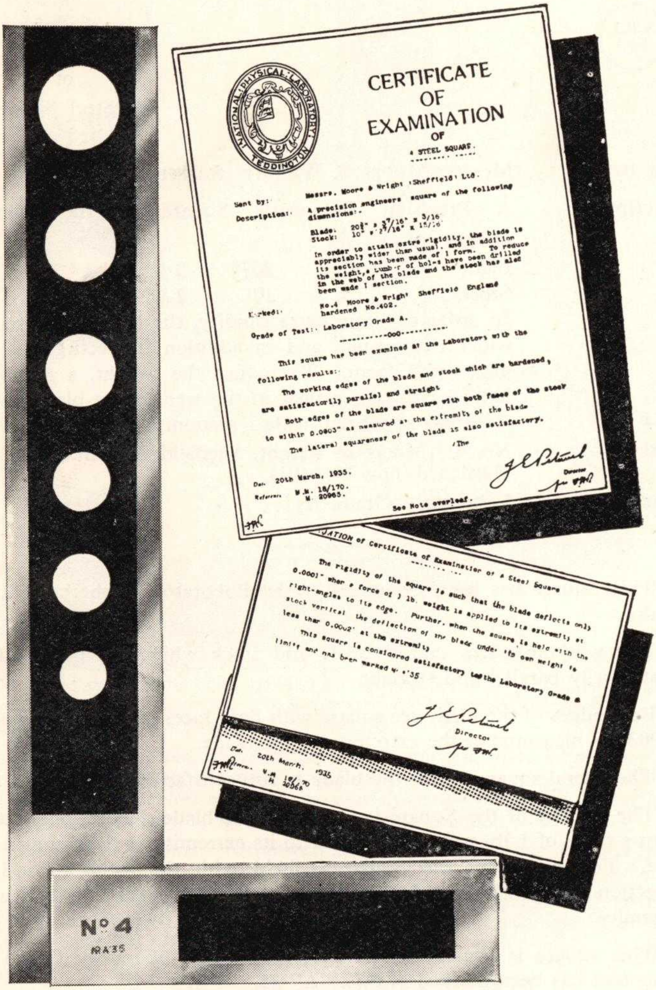


Illustration shows the new Scriber Clamp which is also fitted with ¼ in. hole to hold the standard bar of a Dial Indicator. This in connection with the very rigid spindle constitutes a great improvement in this Gauge.

See also page 116 for other Surface Gauges.

The World's
MOST ACCURATE SQUARE

i.e.—It is the only Square of its size that has passed the Test detailed on the other side, viz. :—the new N.P.L. Grade A Test.



NATIONAL PHYSICAL LABORATORY
TEDDINGTON

CERTIFICATE
OF
EXAMINATION
OF
A STEEL SQUARE.

Sent by: Messrs. Moore & Wright (Sheffield) Ltd.

Description: A precision engineers square of the following dimensions:-

Blade: 20½" x 3⁷/16" x 3/16"
Stock: 10" x 2⁷/16" x 15/16"

In order to attain extra rigidity, the blade is appreciably wider than usual, and in addition its section has been made of I form. To reduce the weight, a number of holes have been drilled in the web of the blade and the stock has also been made I section.

Marked: No.4 Moore & Wright Sheffield England hardened No.402.

Grade of Test: Laboratory Grade A.

----------OOO----------

This square has been examined at the Laboratory with the following results:-

The working edges of the blade and stock which are hardened, are satisfactorily parallel and straight.

Both edges of the blade are square with both faces of the stock to within 0.0003" as measured at the extremity of the blade.

The lateral squareness of the blade is also satisfactory.

/The

J E Petavel
Director

Date 20th March, 1935.
Reference W.M. 18/170.
M. 20965.

See Note overleaf.

JATION of Certificate of Examination of a Steel Square

The rigidity of the square is such that the blade deflects only 0.0001" when a force of 1 lb. weight is applied to its extremity at right-angles to its edge. Further, when the square is held with the stock vertical the deflection of the blade under its own weight is less than 0.0002" at the extremity.

This square is considered satisfactory to the Laboratory Grade A limits and has been marked '35.

J E Petavel
Director

Date 20th March, 1935
Reference W.M. 18/170
M. 20965

Catalogue No. **401**
Regd. Design 801669

PRICES ON PAGE 61.

Copy of N.P.L. Certificate Class "A" issued on a Steel Square

N.P.L
Seal

CERTIFICATE
OF
EXAMINATION
of
A Steel Square.

Sent by :— Messrs. MOORE & WRIGHT (SHEFFIELD) LTD.

Description :— A Precision Engineer's Square of the following dimensions :—

Blade	. .	. .	$20\frac{3}{4}'' \times 3\frac{7}{16}'' \times \frac{3}{16}''$
Stock	. .	. .	$10'' \times 2\frac{7}{16}'' \times \frac{15}{16}''$

In order to attain extra rigidity, the blade is appreciably wider than usual, and in addition its section has been made of I form. To reduce the weight, a number of holes have been drilled in the web of the blade and the stock has also been made I section.

Marked :— No. 4. Moore & Wright, Sheffield, England.
Hardened (now No. 401).

Grade of Test :— Laboratory Grade "A."

* * *

This Square has been examined at the Laboratory with the following results :—

The working edges of the blade and stock which are hardened, are satisfactorily parallel and straight.

Both edges of the blade are square with both faces of the stock to within 0.0003″ as measured at the extremity of the blade.

The lateral squareness of the blade is also satisfactory.

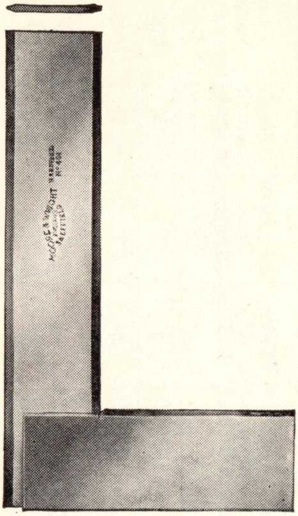
The rigidity of the Square is such that the blade deflects only 0.0001″ when a force of 1-lb. weight is applied to its extremity at right-angles to its edge. Further, when the Square is held with the stock vertical, the deflection of the blade under its own weight is less than 0.0002″ at the extremity.

This square is considered satisfactory to the Laboratory Grade "A" limits and has been marked N.P.L. "A" 35.

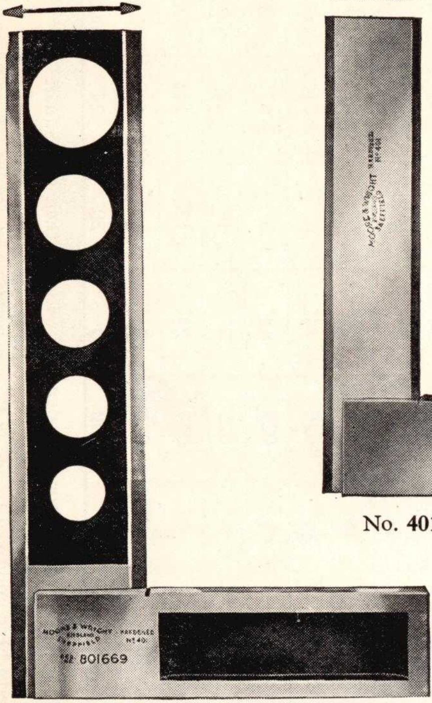
J. E. PETAVEL,
Director,
per F.H.R.

HIGH PRECISION ENGINEERS' SQUARES for reference purposes

No. 401



No. **401,** up to 12″



No. **401,** 18″ and 24″

These Squares have been developed in conjunction with the National Physical Laboratory to produce a Square of the necessary accuracy to pass the new Class "A" limit recently introduced.

No Square of the old conventional form having a blade larger than 18″ will pass the new tests. It was necessary to introduce the design shown above (Reg. No. 801669) to meet the new demands, of which the rigidity and overhang tests are new and additional requirements.

The degree of accuracy guaranteed and dimensions of all sizes are given on page 62.

All sizes up to and including 12″ are made with solid blades with bevelled edges. Sizes 18″ and 24″ are made with relieved stocks and blades as illustrated. All No. 401 Squares are hardened.

Prices—No. **401**—

2″	3″	4″	5″	6″	8″	10″	12″	18″	24″
27/-	**27/-**	**32/3**	**43/-**	**64/6**	**107/6**	**150/6**	**193/6**	**322/6**	**430/-**

The above prices are for Squares without Certificates. If N.P.L. Certificates are required they will be charged at cost, plus carriage to and from the Laboratory.

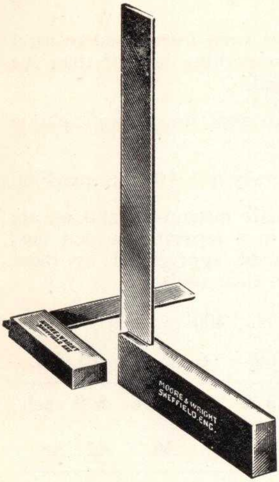
REFERENCE SQUARES No. 401

	Size.	Thickness of Stock.	Width of Stock.	Length of Stock.	Thickness of Blade (at thickest part).	Width of edge of Blade.	Width of Blade.	Length of Blade inside Stock.	Total Length of Blade.	Limit for Squareness N.P.L. "A"
Blade and Stock plain, but edges bevelled.	2″	5/16″	5/8″	1 7/8″	1/16″	·010	5/8″	2″	2 5/8″	·0001″
	3″	3/8″	3/4″	2 1/2″	1/16″	·010	3/4″	3″	3 3/4″	·0001″
	4″	1/2″	1″	3″	1/16″	·010	1″	4″	5″	·00015″
	5″	5/8″	1 1/4″	3 1/2″	3/32″	·015	1 1/4″	5″	6 1/4″	·00015″
	6″	3/4″	1 1/2″	4″	5/32″	·025	1 1/2″	6″	7 1/2″	·00015″
	8″	7/8″	1 3/4″	5″	5/32″	·025	1 3/4″	8″	9 3/4″	·0002″
	10″	1″	2″	6″	5/32″	·025	2″	10″	12″	·0002″
	12″	1″	2 1/2″	7″	3/16″	·030	2 1/2″	12″	14 1/2″	·0002″
Blade & Stock lightened out, edges bevelled.	18″	1 1/4″	3″	10 1/2″	3/16″	·030	3 1/2″	18″	21″	·00025″
	24″	1 1/2″	4″	14″	5/16″	·050	5″	20″	24″	·0003″

Up to 12″ each Square is supplied in a strong wooden box. Larger than 12″, Squares are supplied in strong wooden sheaths.

The above dimensions have been approved by the N.P.L. as being necessary for obtaining and retaining the high accuracy required.

HARDENED TRY SQUARES



No. 402

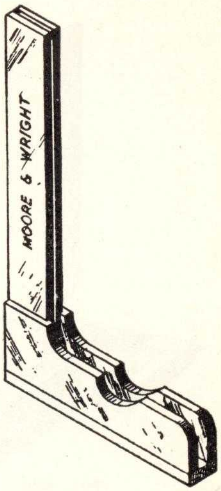
With hardened stocks and blades with glass-hard edges. A Square of the highest precision guaranteed to maintain permanent stability of form.

No. 402

2	3	4	5	in.
9/3	12/–	14/–	18/–	ea.

6	8	10	12	in.
20/6	30/–	43/–	48/6	ea.

18	24	in.
74/–	91/6	each.



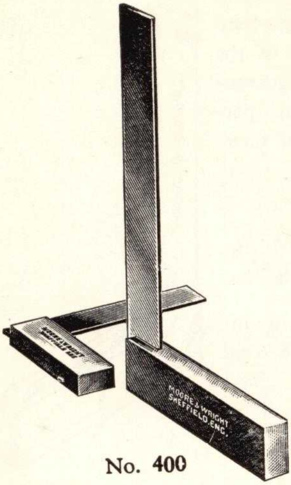
Guaranteed to N.P.L. limits Grade "B," which is, on No. 402 :— 2 and 3″, .0002″. 4, 5 and 6″, .00025″. 8, 10 and 12″, .0003″. 18″, .0004″. 24″, .0005″.

TRY SQUARE DIMENSIONS

Size.	Thickness of Stock	Width of Stock	Length of Stock	Thickness of Blade	Width of Blade	Length of Blade inside Stock	Total Length of Blade
in.	in.	in.	in.	in.	in.	in.	in.
2	$\frac{5}{16}$	$\frac{5}{8}$	$1\frac{7}{8}$	$\frac{1}{16}$	$\frac{5}{8}$	$2\frac{1}{4}$	$2\frac{7}{8}$
3	$\frac{3}{8}$	$\frac{3}{4}$	$2\frac{1}{2}$	$\frac{1}{16}$	$\frac{3}{4}$	$3\frac{1}{4}$	4
4	$\frac{3}{8}$	$\frac{3}{4}$	3	$\frac{1}{16}$	$\frac{3}{4}$	$4\frac{1}{4}$	5
5	$\frac{7}{16}$	$\frac{7}{8}$	$3\frac{1}{2}$	$\frac{1}{16}$	$\frac{7}{8}$	$5\frac{1}{4}$	$6\frac{1}{8}$
6	$\frac{1}{2}$	1	4	$\frac{1}{16}$	1	$6\frac{1}{4}$	$7\frac{1}{4}$
8	$\frac{5}{8}$	$1\frac{1}{4}$	5	$\frac{3}{32}$	$1\frac{1}{4}$	$8\frac{1}{4}$	$9\frac{1}{2}$
10	$\frac{3}{4}$	$1\frac{1}{2}$	6	$\frac{5}{32}$	$1\frac{1}{2}$	$10\frac{1}{4}$	$11\frac{3}{4}$
12	$\frac{7}{8}$	$1\frac{3}{4}$	7	$\frac{5}{32}$	$1\frac{3}{4}$	$12\frac{1}{4}$	14
18	1	$2\frac{1}{2}$	10	$\frac{3}{16}$	$2\frac{1}{2}$	$18\frac{1}{4}$	$20\frac{3}{4}$
24	$1\frac{1}{4}$	$2\frac{1}{2}$	13	$\frac{3}{16}$	$2\frac{1}{2}$	$21\frac{1}{2}$	24

ENGINEERS' STEEL SQUARES

PRECISION GROUND



No. 400

These Squares have been introduced to meet the demand for "something better" than the article usually offered.

The Price has been kept low in anticipation of a large demand.

The degree of accuracy is 1/1000 in. per foot.

A Square is a delicate instrument and we are packing each one in a separate wooden box, believing this will be appreciated by those who take a pride in their tools.

No. 400

2	3	4	5	6	8	10	ins.
2/9	3/–	3/3	3/6	4/–	6/6	8/9	each
12	18	24	30	36	42		ins.
10/9	21/6	35/6	51/9	71/–	90/–		each

Up to 12″ each Square is supplied in a strong wooden box. Larger than 12″ Squares are supplied in strong wooden sheaths.

We would draw attention to the increased strength of the blades of all squares 8 inches and larger.

TRY SQUARE DIMENSIONS

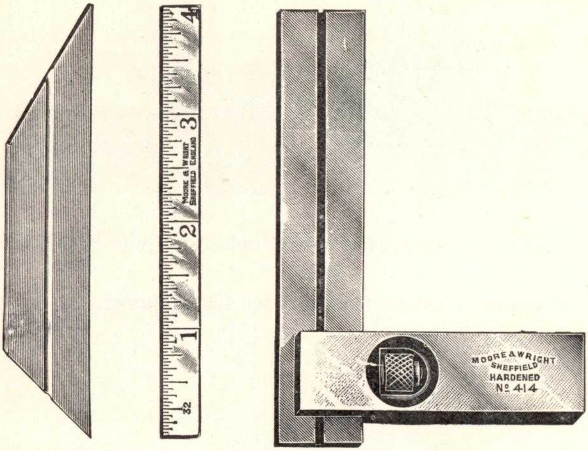
(approx.)

Size.	Thickness of Stock.	Width of Stock.	Length of Stock.	Thickness of Blade.	Width of Blade.	Length of Blade inside Stock.	Total Length of Blade.
Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches
2	$\frac{5}{16}$	$\frac{5}{8}$	$1\frac{7}{8}$	$\frac{1}{16}$	$\frac{5}{8}$	$2\frac{1}{4}$	$2\frac{7}{8}$
3	$\frac{3}{8}$	$\frac{3}{4}$	$2\frac{1}{2}$	$\frac{1}{16}$	$\frac{3}{4}$	$3\frac{1}{4}$	4
4	$\frac{3}{8}$	$\frac{3}{4}$	3	$\frac{1}{16}$	$\frac{3}{4}$	$4\frac{1}{4}$	5
5	$\frac{7}{16}$	$\frac{7}{8}$	$3\frac{1}{2}$	$\frac{1}{16}$	$\frac{7}{8}$	$5\frac{1}{4}$	$6\frac{1}{8}$
6	$\frac{1}{2}$	1	4	$\frac{1}{16}$	1	$6\frac{1}{4}$	$7\frac{1}{4}$
8	$\frac{5}{8}$	$1\frac{1}{4}$	5	$\frac{3}{32}$	$1\frac{1}{4}$	$8\frac{1}{4}$	$9\frac{1}{2}$
10	$\frac{3}{4}$	$1\frac{1}{2}$	6	$\frac{5}{32}$	$1\frac{1}{2}$	$10\frac{1}{4}$	$11\frac{3}{4}$
12	$\frac{7}{8}$	$1\frac{3}{4}$	7	$\frac{5}{32}$	$1\frac{3}{4}$	$12\frac{3}{8}$	14
18	1	$2\frac{1}{2}$	10	$\frac{3}{16}$	$2\frac{1}{2}$	$18\frac{1}{4}$	$20\frac{3}{4}$
24	$1\frac{1}{4}$	$2\frac{1}{2}$	13	$\frac{3}{16}$	$2\frac{1}{2}$	$21\frac{1}{2}$	24
30	$1\frac{1}{2}$	3	15	$\frac{3}{16}$	3	27	30
36	$1\frac{3}{4}$	$3\frac{1}{2}$	18	$\frac{1}{4}$	$3\frac{1}{2}$	$32\frac{1}{2}$	36
42	$1\frac{3}{4}$	$3\frac{1}{2}$	21	$\frac{1}{4}$	$3\frac{1}{2}$	$38\frac{1}{2}$	42

A Handsome Display Stand of Polished Beech is presented Free of Charge with every first order for One Dozen Squares.

ADJUSTABLE TRY SQUARE

No. 414



The Stock of this Precision Square has all faces ground and hardened.

The blades are tempered and the edges precision ground.

The blade is 4 in. long and the stock 2½ ins. It is a very handy tool and has a range of usefulness not possible with an ordinary fixed square.

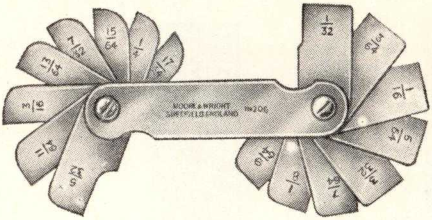
The Stock of this Square can be instantly set at any position on the blade.

Made in one size only as above mentioned.

Each packed in separate wooden box.

No. 414	With 1 plain square blade	11/3	each.
No. 414/1	With narrow rule in 64ths, in addition to standard blade	13/6	,,
No. 415/1	Ditto, but rule in 1/100ths	14/-	,,
No. 416/1	Ditto, ,, ½ m/m	14/-	,,
No. 414/2	Complete, as illustrated, with three blades, rule in 1/64ths	16/-	,,
No. 415/2	,, ,, ,, 1/100ths	16/6	,,
No. 416/2	,, ,, ,, ½ m/m	16/6	,,

RADIUS GAUGES

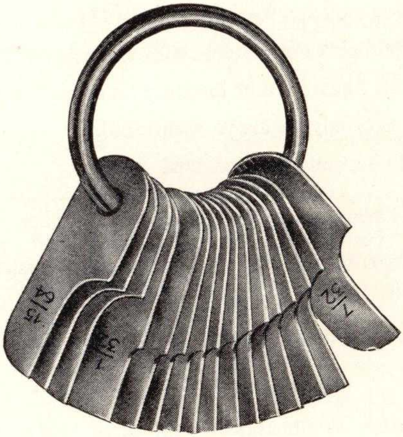


No. 206 This tool contains 16 gauges of radii from $\frac{1}{32}$ in. to $\frac{17}{64}$ by 64ths. Price **5/6** each.

No. 207 Contains 20 gauges from .020 to .400, inclusive. Price **6/6** each.

RADIUS GAUGES

ON KEY RINGS

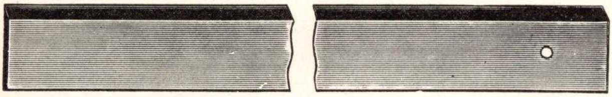


No. 204 This tool contains 16 gauges of radii from $\frac{1}{32}$ in. to $\frac{17}{64}$ by 64ths. Price **4/3** each.

No. 205 „ 20 „ decimal radii from .020 to .400, inclusive. Price **5/6** each.

ENGINEERS' LIGHT STEEL STRAIGHT EDGES

NOTE.—These Straight Edges are not sold as parallels. If both edges are required accurate and parallel the price is increased by 50 per cent.



Rough ground on sides. Finish ground on edges, not hardened.

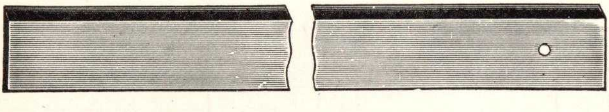
No. **308**

Width and Thickness (approx.)	$1\frac{3}{4} \times \frac{1}{8}''$			$2 \times \frac{3}{16}''$		
Length in inches	18	24	30	36	42	
Plain, one bevel edge	**5/9**	**8/3**	**10/3**	**12/9**	**16/-**	each

Width and Thickness (approx.)	$2 \times \frac{3}{16}''$	$3 \times \frac{1}{4}''$	$3 \times \frac{1}{4}''$	
Length in inches	48	60	72	
Plain, one bevel edge	**17/9**	**24/-**	**32/-**	each

Wrapped Singly.

HEAVY STEEL STRAIGHT EDGES



Finish ground all over, not hardened.

No. **309**

Width and Thickness (approx.)	$2\frac{1}{2} \times \frac{1}{4}''$	$2\frac{1}{2} \times \frac{1}{4}''$	
Length in inches	24	30	
Plain, one bevel edge	**19/-**	**27/-**	each

Width and Thickness (approx.)	$3 \times \frac{5}{16}''$		$4 \times \frac{1}{2}''$		
Length in inches	36	48	60	72	
Plain, one bevel edge	**32/-**	**51/-**	**68/-**	**86/-**	each

Wrapped Singly.

Straight Edges to B.S.I. Specification No. 863 quoted for on request.

ACCURACY of STRAIGHT EDGES

TOLERANCE FOR **STRAIGHTNESS** OF EDGE (EITHER SINGLE OR DOUBLE EDGED).

	Up to 12″	13″—24″	25″—36″	37″—48″	49″—60″	61″—72″
308 Quality	·0005″	·001″	·0015″	·002″	·0025″	·003″
309, 312 and 313 Quality	·0001″	·0002″	·0003″	·0004″	·0005″	·0006″

TOLERANCE FOR PARALLELISM OF EDGES WHERE **BOTH** EDGES ARE GROUND TO ABOVE LIMITS.

	Up to 12″	13″—24″	25″—36″	37″—48″	49″—60″	61″—72″
309, 312, 313 Quality ..	·0002″	·00025″	·0003″	·0004″	·0005″	·0006″
308 Quality	·001″	·0015″	·002″	·0025″	·003″	·0035″

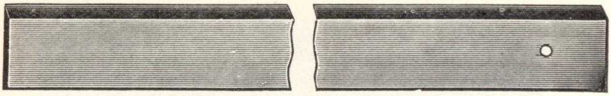
Straight Edges to B.S.I. Specification, No. 863, quoted for on request.

ENGINEERS' LIGHT STEEL STRAIGHT EDGES

WITH GLASS HARD EDGE

By a new process of hardening we are now able to deliver Straight Edges with a **Glass Hard Edge.** The bevelled Edge only is hardened, the body of the Straight Edge being left of its natural hardness. There is thus no danger of breakage, and the life of the tool is indefinitely prolonged.

NOTE.—These Straight Edges are not sold as parallels. If both edges are required accurate and parallel the price is increased 50 per cent.



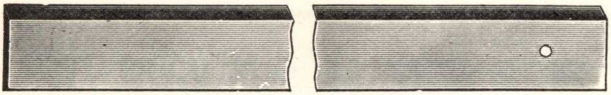
No. 312

Width and Thickness (approx.)	1¾″ × ⅛″			2″ × 3/16″	
Length in inches	18	24	30	36	42
Plain, one bevel edge	**9/–**	**10/3**	**13/6**	**16/–**	**20/–** each

Width and Thickness (approx.)	2″ × 3/16″	3″ × ¼″	3″ × ¼″
Length in inches	48	60	72
Plain, one bevel edge	**22/6**	**32/–**	**43/–** each

HEAVY STEEL STRAIGHT EDGES

WITH GLASS HARD EDGE



Finish ground all over.

No. 313

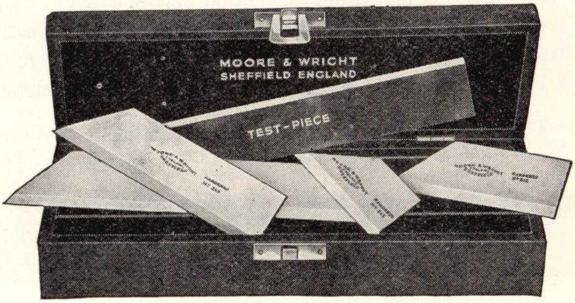
Width and Thickness (approx.)	2½″ × ¼″		3″ × 5/16″		4″ × ½″	
Length in inches	24	30	36	48	60	72
Plain, one bevel edge	**21/6**	**32/–**	**38/–**	**59/–**	**75/–**	**97/–** each

Straight Edges to B.S.I. Specification No. 863, quoted for on request.

NEW TYPE TOOL MAKERS' STRAIGHT EDGES

No. 315

Size 1″ × $\frac{1}{8}$″



2	3	4	6	inches.
2/9	3/9	4/9	7/-	each

No. **315S** Set of four, i.e., one each 2, 3, 4, 6 inch and one black glass test piece 6½″ long, in plush lined Case.

Price .. 32/3 per Set.

No. **315TP** Black Glass Test Piece only, in Sliding Case.

Price .. 11/3 each.

We guarantee the error on these Straight Edges not to exceed .0001″ on any of the sizes. If a Straight Edge is held to the Black Glass Test Piece it should not show white light. Blue light is permissible, being within the limit.

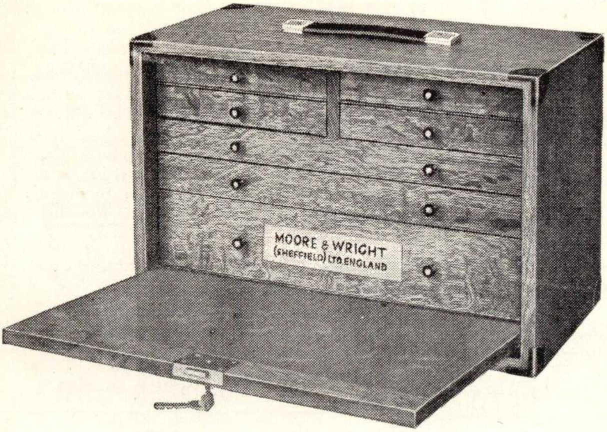
GET A COPY OF OUR EQUIVALENT BOOK.

Price - 3d.

Free with 5/- worth of goods.

Send a receipt for your purchases.

TOOLMAKERS' CABINET



No. **1007**

Since this Cabinet was originally made we have introduced a number of improvements which we think makes it a superior job to the one we introduced at first.

The new details are :—

11¼″ high, × 17″ long × 8½″ back to front.

The case is constructed of ⅝″ solid oak with Yale lock and leather carrying handle, which lies flat when not in use.

Note all locks differ. Four small drawers and three large drawers will accommodate all the usual Toolmakers' equipment such as Surface Gauge, Protractor, Combination Set, Micrometers, Callipers, Rules, Clamps, etc.

The drawers are lined with green baize.

Beautifully finished Mid Oak colour and polished.

Fitted with oxidised metal corners.

Leather handle and knobs securely fastened by bolt and nut.

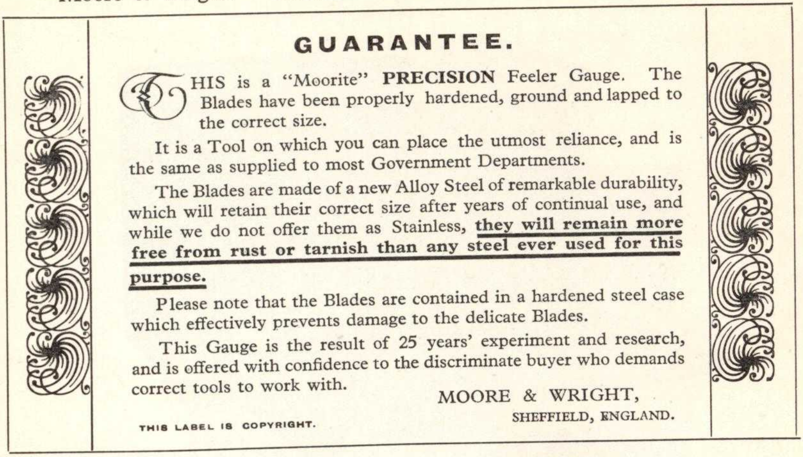
Extremely strong, robust and durable.

Detachable front designed for use as sketching board.

Price **42**/– each.

PRECISION FEELER GAUGES

We give a guarantee of unconditional reliability with every gauge marked "Moore & Wright." Facsimile below :—



GUARANTEE.

THIS is a "Moorite" **PRECISION** Feeler Gauge. The Blades have been properly hardened, ground and lapped to the correct size.

It is a Tool on which you can place the utmost reliance, and is the same as supplied to most Government Departments.

The Blades are made of a new Alloy Steel of remarkable durability, which will retain their correct size after years of continual use, and while we do not offer them as Stainless, **they will remain more free from rust or tarnish than any steel ever used for this purpose.**

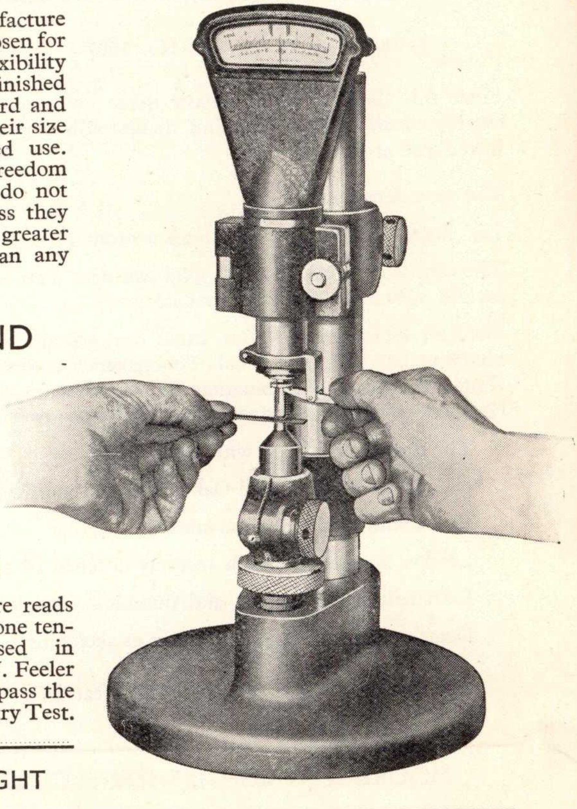
Please note that the Blades are contained in a hardened steel case which effectively prevents damage to the delicate Blades.

This Gauge is the result of 25 years' experiment and research, and is offered with confidence to the discriminate buyer who demands correct tools to work with.

MOORE & WRIGHT,
SHEFFIELD, ENGLAND.

THIS LABEL IS COPYRIGHT.

The Steel used in the manufacture of these Gauges has been chosen for its qualities of hardness, flexibility and endurance. The finished gauges consequently are hard and flexible and will maintain their size through years of continued use. The Steel possesses a great freedom from Rust, and while we do not offer the gauges as Stainless they will be found to possess a greater immunity from rusting than any previously offered.



INSPECTION AND CHECKING OF PRECISION FEELER GAUGE BLADES

The instrument shown here reads accurately to 1/10,000 in. (one ten-thousandth) and is used in examination of all M. & W. Feeler Blades. Every blade must pass the equivalent of the Air Ministry Test.

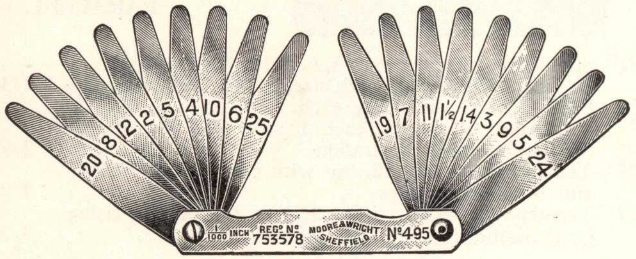
THE "FEELIMIT" GAUGE

NEW IDEA IN FEELER GAUGES

The Cases of these Feeler Gauges are now made of Stainless Steel.
The Blades are made of Carbon Steel.

Regd. No. 753578

The arrangement of the blades in this gauge doubles the usefulness of feeler gauges. The blades at one end can be used as the "high" limit, and those at the other end as "low." Motor mechanics will find it especially useful, it abolishes guess work, as by using one gauge at each end definite tolerances can be worked to :—say a valve tappet is being set to 6/1000ths, draw out No. 6 blade at one end and No. 7 at the other, using No. 6 as "GO" and No. 7 as "NOT GO." Perfect exactitude of setting is thus obtained.



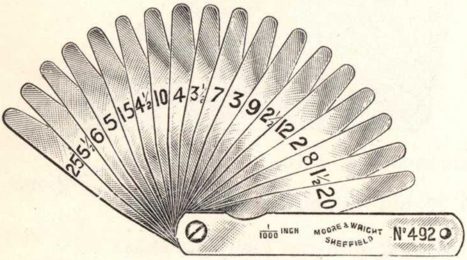
Containing 18 Blades, i.e., 9 at each end.

One end	2, 4, 6, 8, 10, 12, 15, 20, 25/1000ths of an inch.
Other end	1½, 3, 5, 7, 9, 11, 14, 19, 24/1000ths of an inch.

No. **494**	3 in. Parallel	5/6 each.
No. **495**	3 in. Taper, as illustrated	6/– „
No. **496**	4 in. Taper	7/– „

Packed in ¼ dozens.

NEW FEELER GAUGES

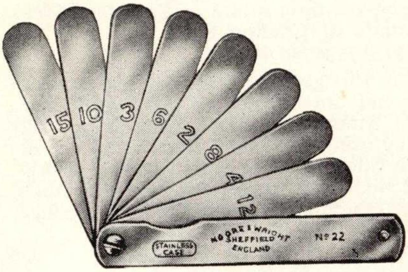


We introduce below the latest refinement in feeler gauges, i.e., a gauge giving every half-thousandth from 1½ to 6/1000, in addition to the usual sizes up to 25/1000. This gauge covers every need from rough measurement up to the most delicate refinement.

No. **491**	3 in. Parallel containing 18 Blades, i.e., one blade each 1½, 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 7, 8, 9, 10, 12, 15, 20, 25/1000ths of an inch, each blade engraved with number	5/6 each.
No. **492**	3 in. Taper, containing Blades as above but tapered in width, exact as illustration	6/– „
No. **493**	4 in. Taper as No. 492, but with all Blades 4 inches in length	7/– „

Packed in ¼ dozens.

PRECISION FEELER GAUGES



The Cases of all Gauges on this page are made of Stainless Steel.

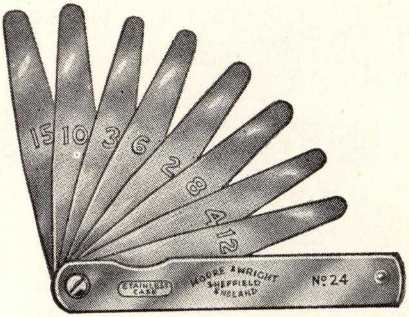
The Blades are made of Carbon Steel.

Blades, 3 in. long, ½ in. wide, **PARALLEL.**

No. 21	Six blades, viz. : one each 4, 6, 8, 10, 12, 15/1000ths of an inch, each marked with size, folding into steel case	2/3 each.
No. 22	Eight blades, viz. : one each 2, 3, 4, 6, 8, 10, 12, 15/1000ths of an inch, each marked with size, folding into steel case, as illustration	2/9 each.
No. 27	Ten blades, as No. 22, but with two each 2/1000ths and 3/1000ths blades	3/9 each.
No. 12	Twenty-two blades, one each 4 to 25/1000ths, rising by thousandths	9/3 each.

For Gauges with extra long blades, see pages 79, 83.

Blades.
3 in. long,
½ in. wide,
TAPERED IN WIDTH.



No. 23	Six blades, one blade each 4, 6, 8, 10, 12, 15/1000ths of an inch	2/9 each.
No. 24	Eight blades, as No. 22, but with blades exact as illustration	3/3 „
No. 25	Ten blades, as No. 24, but with two each 2/1000ths and 3/1000ths blades	3/9 „
No. 28	Ten blades, as No. 24, but with three 2/1000ths blades	3/9 „

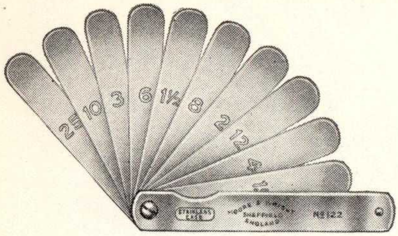
No. **170** **Bolts and Nuts** for Feeler Cases, 2/6 doz.

LEATHER CASES for any of the above can be supplied at **6d.** each.

For "Safe and Sure" Feeler Gauges, see pages 82, 83.

For METRIC Feeler Gauges, see page 81.

PRECISION FEELER GAUGES



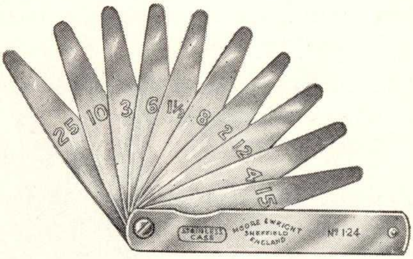
The Cases of all Gauges on this page are made of Stainless Steel.

Blades of Carbon Steel.

Blades, 3 in. long, ½ in. wide, **PARALLEL.**

No. **121**	Ten blades, one each 1½, 2, 3, 4, 5, 6, 7, 8, 9, 10/1000ths of an inch, with size on each blade, folding into steel case	**3/9** each
No. **122**	Ten blades, one each 1½, 2, 3, 4, 6, 8, 10, 12, 15, 25/1000ths of an inch, with size on each blade, folding into steel case, exact as illustration	**3/9** each
No. **128**	Nine blades, one each 1½, 2, 3, 4, 6, 8, 10, 12, 15/10000ths	**3/3** each

Blades,
3 in. long,
½ in. wide,
TAPERED
IN WIDTH.



No. **124**	Ten blades, one each 1½, 2, 3, 4, 6, 8, 10, 12, 15, 25/1000ths of an inch, with size on each blade, folding into steel case, exact as illustration	**4/–** each
No. **125**	Ten blades, one each 1½, 2, 3, 4, 5, 6, 7, 8, 9, 10/1000ths of an inch, with size on each blade, folding into steel case	**4/–** each
No. **129**	Nine blades, one each 1½, 2, 3, 4, 6, 8, 10, 12, 15/1000ths	**3/6** each

LEATHER CASES for any of the above can be supplied at **6d.** each.

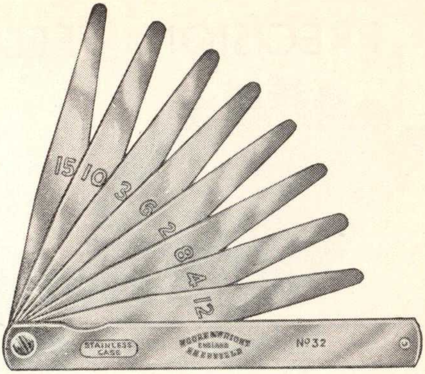
FEELER BLADES FOR REPLACEMENT

No. **171**	3 in. parallel blades, Precision Quality	**4½d.** each
No. **172**	3 in. taper blades, Precision Quality	**6d.** each
No. **173**	4 in. taper blades, Precision Quality	**7d.** each

For "Safe and Sure" Feeler Gauges see pages 82, 83.

For METRIC Feeler Gauges, see page 81.

PRECISION FEELER GAUGES



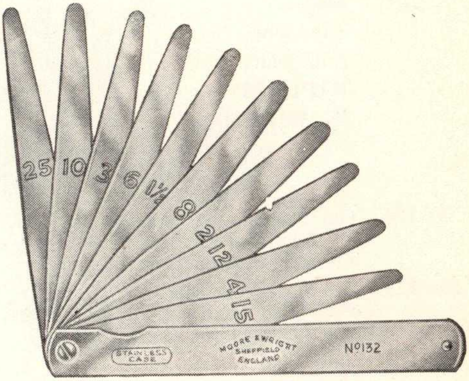
Blades, 4 in. long, ½ in. wide, **TAPERED IN WIDTH.**

No. 31	Six blades, one each of 4, 6, 8, 10, 12, 15/1000ths of an inch, with size on each blade, folding in steel case ..	2/9 each
No. 32	Eight blades, as illustration, one blade each 2, 3, 4, 6, 8, 10, 12, 15/1000ths of an inch..	3/9 each
No. 36	Ten blades, three No. 2 blades and one each 3, 4, 6, 8, 10, 12, 15/1000ths of an inch..	4/3 each
No. 33	Eight blades as No. 32, but fitted with 4 in. flexible steel rule	4/3 each

The Cases of all Gauges on this page are made of Stainless Steel.

The Blades are made of Carbon Steel.

Blades,
4 in. long,
½ in. wide,
TAPERED IN WIDTH.



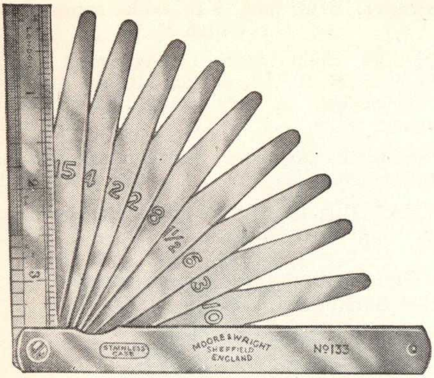
No. 132	Ten blades, one each of 1½, 2, 3, 4, 6, 8, 10, 12, 15, 25/1000ths of an inch, with size on each blade, in steel case	4/3 each
No. 135	Ten blades, one each of 1½, 2, 3, 4, 5, 6, 7, 8, 9, 10/1000ths of an inch, in steel case	4/3 each
No. 130	Nine blades, one each ½, 2, 3, 4, 6, 8, 10, 12, 15/1000ths	4/– each

LEATHER CASES for any one of the above can be supplied at **7d.** each.

For "Safe and Sure" Feeler Gauges, see pages 82, 83.

For METRIC Feeler Gauges, see page 81.

PRECISION FEELER GAUGES



Blades, 4 in. long, ½ in. wide, **tapered in width,** fitted with flexible steel rule.

No. **133**	Ten blades, one each of 1½, 2, 3, 4, 6, 8, 10, 12, 15, 25/1000ths of an inch, and fitted with steel rule, in steel case	5/6 each
No. **134**	As No. 133, but with rule marked "London" and "Metric"	5/6 each

The Cases of Nos. 133 and 134 are of Stainless Steel.
The Blades are of Carbon Steel.

Blades, 6 in. long, ½ in. wide, **parallel,** fitted with 6 in. flexible steel rule.

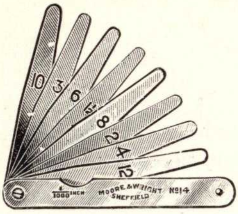
No. **164**	Eight blades, one each 2, 3, 4, 6, 8, 10, 12, 15/1000ths and 6 in. flexible steel rule	8/9 each
No. **165**	Ten blades, one each 1½, 2, 3, 4, 6, 8, 10, 12, 15, 25/1000ths and 6 in. flexible steel rule	9/9 each

Blades, 6 in. long, ½ in. wide, **tapered in width,** fitted with 6 in. flexible steel rule.

No. **166**	Eight blades, one each 2, 3, 4, 6, 8, 10, 12, 15/1000ths and 6 in. flexible steel rule	9/3 each
No. **167**	Ten blades, one each 1½, 2, 3, 4, 6, 8, 10, 12, 15, 25/1000ths and 6 in. flexible steel rule	10/3 each

For "Safe and Sure" Feeler Gauges, see pages 82, 83.

VEST POCKET FEELER GAUGE



Nut and Screw Joint

Blades, 3 in. long, ⅜ in. wide, **tapered in width.**

No. **14** Eight blades, i.e., one each 1½, 2, 3, 4, 6, 8, 10, 12, in special light case for vest pocket. A very handy and attractive article .. .. 2/9 each

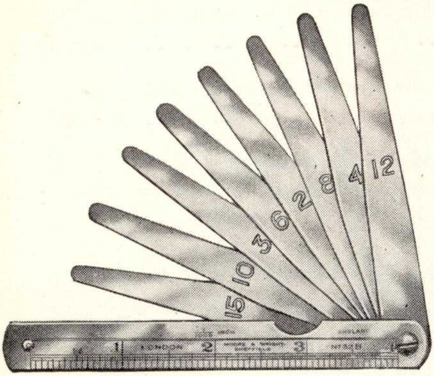
No. **14RF** As above, but with rule and file for magneto .. .. .. **4/–** each

LEATHER CASES for any of the above can be supplied at **6d.** each.

If you want a Cheaper Gauge we make a range marked "SAFE AND SURE" SHEFFIELD, pages 82, 83.

Packed in ½ dozens.

RULED CASE FEELER GAUGE



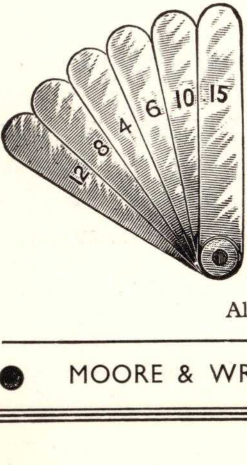
Blades, 4 in. long, ½ in. wide, **tapered in width.**

No. **32B** Eight blades, one each 2, 3, 4, 6, 8, 10, 12, 15/1000ths of an inch, exact as illustration, with rule marked on case **4/3** each

No. **132B** Ten blades, one each of 1½, 2, 3, 4, 6, 8, 10, 12, 15, 25/1000ths of an inch, engraved with size on each, with rule marked on case .. .. .. **4/9** each

POCKET FEELER GAUGE

WITHOUT CASE



These are now made with Nut and Screw Joint.

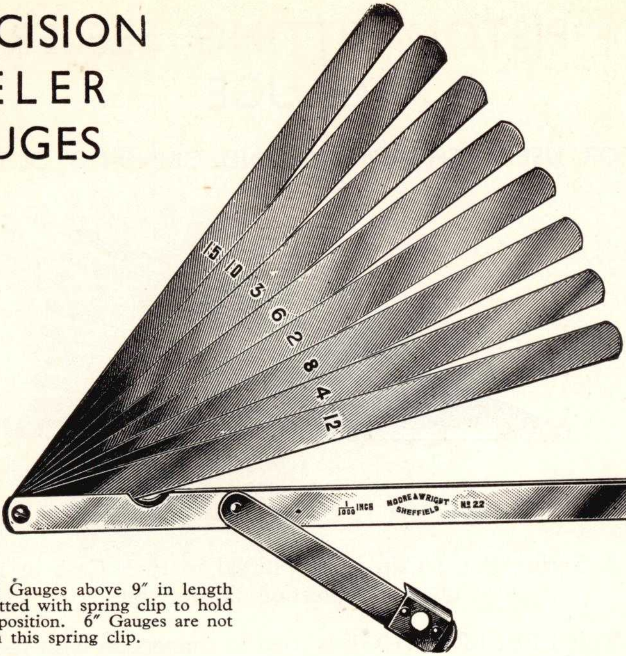
No. **2** Six blades, 3 in. long, ½ in. wide; one of each 4, 6, 8, 10, 12, 15/1000ths of an inch, without steel case, as shown, **1/–** each.

No. **4** Eight blades, viz.: one each 2, 3, 4, 6, 8, 10, 12 and 15/1000ths of an inch, **1/3** each.

No. **5** Six blades, viz.: one each 2, 3, 4, 5, 10, 15/1000ths of an inch .. **1/1** each.

All above packed in ½ dozens.

PRECISION FEELER GAUGES



All Feeler Gauges above 9″ in length are now fitted with spring clip to hold blades in position. 6″ Gauges are not fitted with this spring clip.

Blades, ½ in. wide, **parallel.**

No.		6″	9″	12″	15″	18″	24″	
No. 21	Six blades, viz.: one each 4, 6, 8, 10, 12, 15/1000ths of an inch, each marked with size, folding into steel case as illustration	**6/6**	**8/–**	**9/9**	**11/3**	**13/6**	**17/9**	each
No. 22	Eight blades, viz.: one each 2, 3, 4, 6, 8, 10, 12, 15/1000ths of an inch, each marked with size, folding into steel case ..	**7/6**	**9/9**	**11/3**	**13/6**	**16/–**	**20/–**	„
No. 122	Ten blades, viz.: one each 1½, 2, 3, 4, 6, 8, 10, 12, 15, 25/1000ths	**8/9**	**11/9**	**13/6**	**15/6**	**19/6**	**24/–**	„

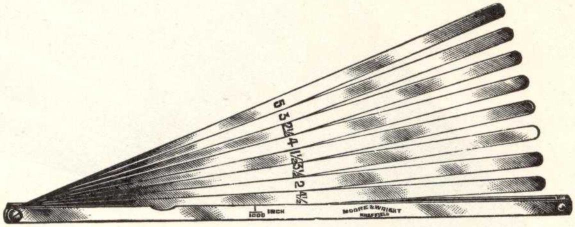
Blades, ½ in. wide, **tapered in width.**

No.		6″	9″	12″	15″	18″	24″	
No. 23	Six blades, one blade each 4, 6, 8, 10, 12, 15/1000ths of an inch	**7/–**	**8/9**	**10/6**	**12/6**	**15/–**	**19/6**	„
No. 24	Eight blades, sizes as illustration	**8/–**	**10/3**	**12/–**	**14/6**	**17/6**	**21/6**	„
No. 124	Ten blades, viz.: one each 1½, 2, 3, 4, 6, 8, 10, 12, 15, 25/1000ths	**9/3**	**12/6**	**14/6**	**16/9**	**20/6**	**25/–**	„

QUOTATIONS given for Special Feeler Gauges on application.

PISTON FITTING FEELER GAUGE

FOR USE WITH HONING AND GRINDING OUTFITS.



No. **499**

A Spring Blade Clip is now fitted to each Case to hold blades in position during use.

This FEELER GAUGE is used in connection with re-grinding and re-honing Cylinders. The limit to be allowed between the size of the Piston and the bore of the Cylinder is :—

For Aluminium Pistons, up to 3 in. dia., 1½/1000 in. per in. of dia.
For do. over 3 in. dia., 1¾/1000 in. „ „
For Cast Iron Pistons, for all sizes, 1/1000 in. per in. of diameter.

For example, a 3 in. Cylinder would have an allowance of .0045 in. The Feeler Blade marked 4½, when put down the side of the Cylinder, should be just enough to hold the Piston in position. When the Feeler Blade is drawn out, the Piston should just slide down. Where an odd ¼/1000 in. enters into the calculation, it can be ignored.

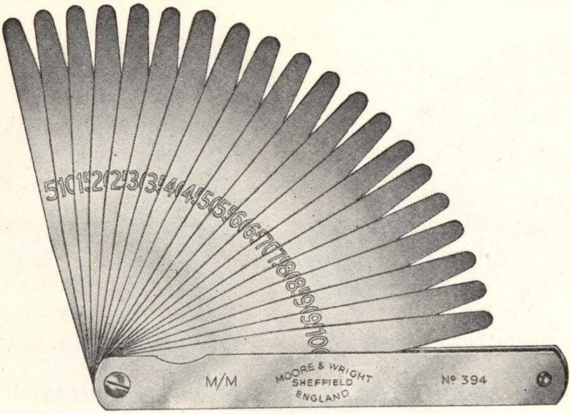
Working on this formula gives a perfect job.

The Feeler Gauge contains Blades to obtain thicknesses of every half-thousandth, from .0015 in. to .005 in. If larger sizes are required two blades can be used together.

No. **499** Containing 8 blades, 10 in. by ¼ in. one blade each, 1½, 2, 2½, 3, 3½, 4, 4½, 5/1000ths of an inch in Steel Case. **10/9** each.

Packed one in a box.

METRIC FEELER GAUGES

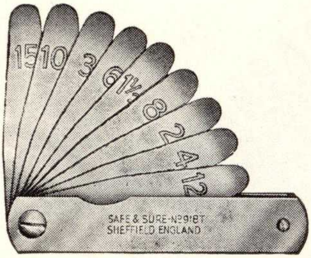


No. 391	With ten blades, 3″ long, tapered, i.e., one each 5, 10, 15, 20, 30, 40, 50, 60, 70, 80/100 m/m . .	2/3 each
No. 392	Ditto but with blades 4″ long	2/9 each
No. 393	With twenty blades, 3″ long, tapered, i.e., one each 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100/100 m/m . .	4/3 each
No. 394	Ditto but with blades 4″ long	5/6 each
No. 168	Blades for replacement, 3″	4d. each
No. 169	„ „ 4″	5d. each

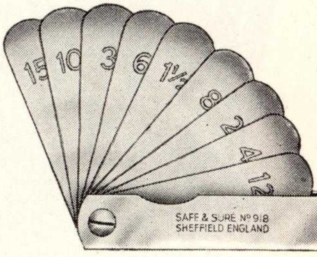
Cheap Lines of FEELER GAUGES

As there is a call for a cheap Feeler Gauge on the part of Motorists, etc., we meet the demand by offering the lines given below.

Nothing so low in price has ever been offered before.



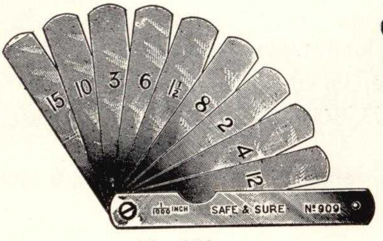
No. **918T**
Now contains No. 1½ blade.



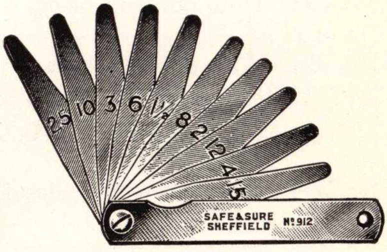
No. **918**
Now contains No. 1½ blade.

MARKED "SAFE & SURE" SHEFFIELD

No. **918**	9 blades 2¼ in. long, parallel, one each 1½, 2, 3, 4, 6, 8, 10, 12, 15/1000ths	**10d.** each
No. **918T**	As illustration	1/– each
No. **909**	NINE PARALLEL BLADES, 3 in. long, 1½, 2, 3, 4, 6, 8, 10, 12, 15/1000ths	1/3 each



No. **909**

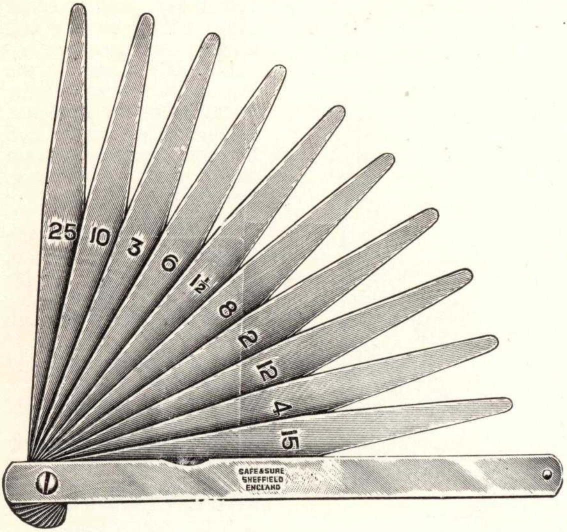


Nos. **911** and **912**

No. **912**	TEN TAPERED BLADES, 3 in. long, 1½, 2, 3, 4, 6, 8, 10, 12, 15, 25/1000ths, as illustration	1/9 each
No. **911**	TEN TAPERED BLADES, 4 in. long, 1½, 2, 3, 4, 6, 8, 10, 12, 15, 25/1000ths	2/– each
No. **911R**	As No. 911 but with flexible Rule	2/9 each

"SAFE & SURE" FEELER GAUGES

IN LARGE SIZES



Ten Blades as
shown.

No. **1106**
6″ Blades, **5**/– each

No. **1109**
9″ Blades, **7**/– each

No. **1112**
12″ Blades, **9**/– each

MOTOR GAUGE

NEW POPULAR LINE FOR MOTOR CYCLES

This Gauge contains 6 blades, as follows :—

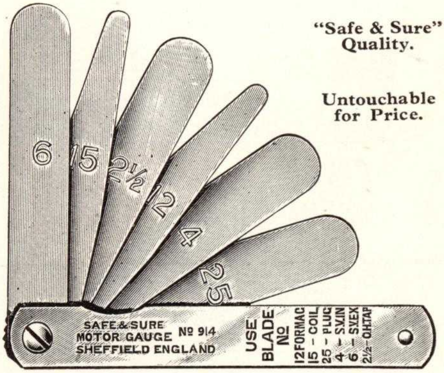
3 inches long

No. 12 for Magneto, contact breaker
„ 4 „ Side Valve Inlet.
„ 6 „ „ Exhaust.
„ 25 „ Plugs.
„ 2½ „ Overhead Valve Tappets.
„ 15 „ Coil.

The above is indelibly stamped on each Gauge.

For Contact breaker coil ignition use Nos. 12 and 4 together.

No. **914** .. 1/3 each



"Safe & Sure" Quality.

Untouchable for Price.

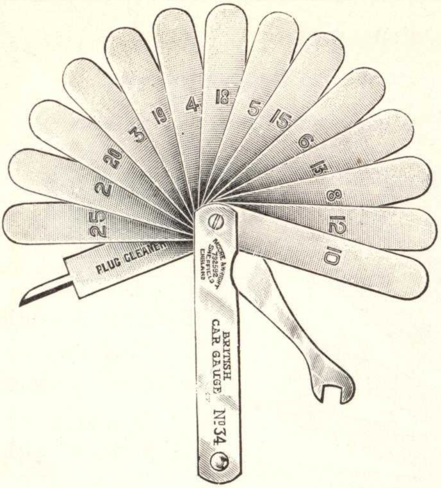
Packed in half dozens

We are the ACTUAL MAKERS, and only our remarkably efficient means of production enables us to offer at the above prices.

MOORE & WRIGHT (SHEFFIELD) LTD. ENGLAND ●

No. 34. BRITISH CAR GAUGE

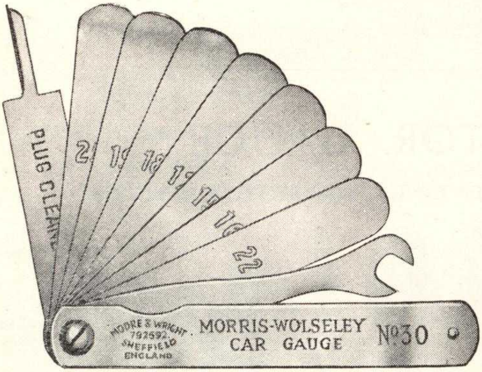
Reg. No. **792592**



Contains Gauges for all the settings on all British cars, tappets, magneto or distributor points, spark plugs. Plug cleaner and magneto spanner also included in the set. In the few cases where there is no blade of the thickness required, two blades can be used together to obtain the exact thickness necessary.

This Gauge contains one 3″ blade each 2, 3, 4, 5, 6, 8, 10, 12, 13, 15, 18, 19, 20, 22, 25 thousandths, plug cleaner and magneto spanner.
Ideal for the garage and repair-man.
No. **34** Price **4/6** each.

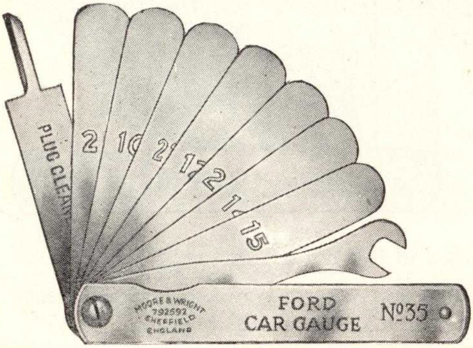
No. 30 MORRIS and WOLSELEY CAR GAUGE


PLUG CLEANER
22
MOORE & WRIGHT 792592 SHEFFIELD ENGLAND
MORRIS-WOLSELEY CAR GAUGE
Nº30

Contains one blade 3″ long each 12, 15, 16, 17, 19, 22, 25 thousandths, plug cleaner and magneto spanner. This Gauge is right for all models Morris and Wolseley for 1939.

No. 30 Price **3/6** each.

No. 35 FORD CAR GAUGE.



Contains one blade 3″ long each 10, 12, 14, 15, 20, 22 and 25 thousandths, plug cleaner and magneto spanner. Covers all models.
No. **35** Price **3/6** each.

KNIFE AND GAUGES

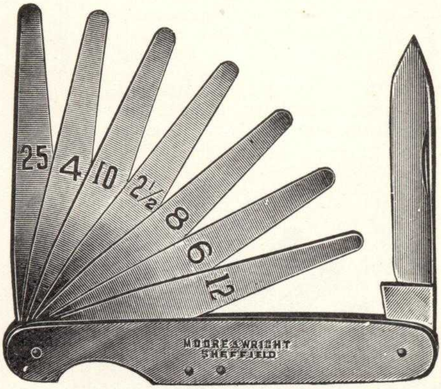
FOR ENGINEERS AND MOTORISTS

This is a new line containing a knife blade and 7 gauges from 2½ to 25 for all the settings on your car. Each Gauge is indelibly engraved with its size.

No. **397.** With 1 Gauge each 2½, 4, 6, 8, 10, 12, 25/1000ths and hand forged knife blade. Length 3½ inches.

Price **4/–** each.

Packed in ½ dozens.



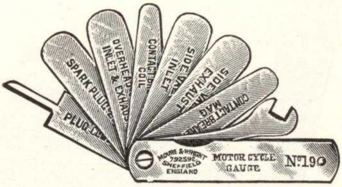
No. **397**

No. 19. MOTOR CYCLE GAUGE

Contains one blade each 2¼″ long. This Gauge contains gauges for correctly setting—

Spark Gap, **25.**
Contact Breaker Coil, **15.**
Contact Breaker Mag., **12.**
Inlet Valves on Side Valve Engines, **4.**
Exhaust Valves on Side Valve Engines, **6.**
Inlet and Exhaust on Overhead Valve Engines, **2½.**
Plug cleaner and magneto spanner.

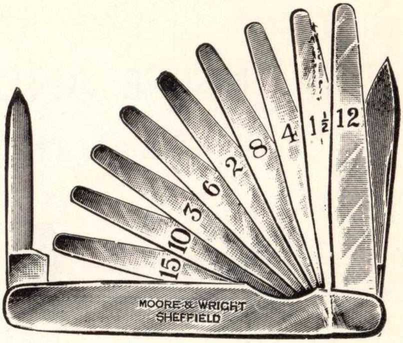
As illustrated. Price **2/6** each.

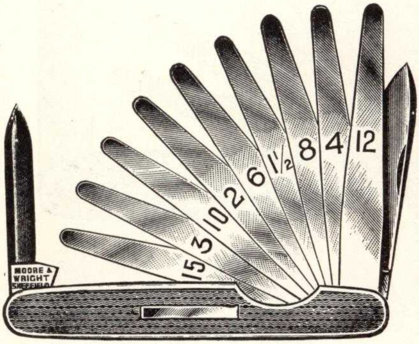


ENGINEERS' PEN KNIVES

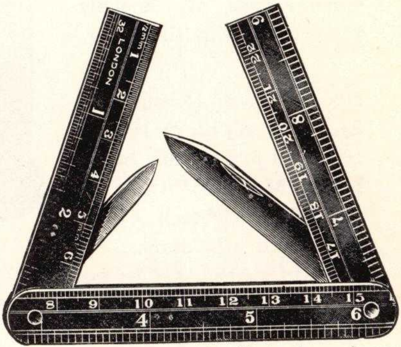
No. **137** The illustration shows an Engineer's Pen Knife, with German Silver handle, 3½ ins. long, containing 9 feeler gauge blades ranging from 1½ to 15/1000ths of an inch, and two hand-forged blades. It is a size convenient and handy for the pocket, length 3½ inches .. .. **5/6** each

No. **137S** as above but with stainless handles and knife blades; feeler blades are ordinary steel .. .. **7/–** each



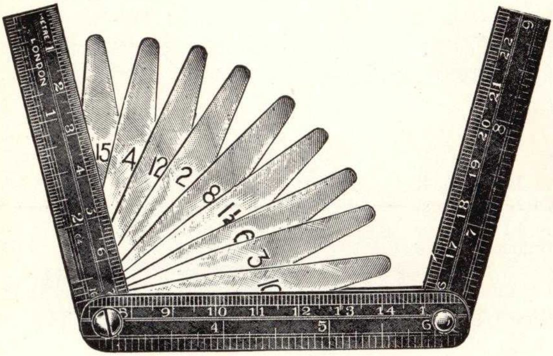


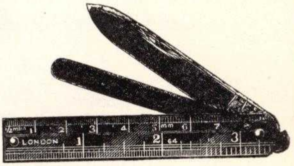
No. **138** A De Luxe production with beautiful engine-turned scales, hand-forged hand-fitted blades. A super excellent job .. .. **8/–** each



No. **141** ½ in. wide, 3¼ in. long, 2 blades, 9 in. folding rule .. **4/9** each

No. **141S** All stainless, only ⅜ in. wide· **6/6** each





No. **143** Very useful for Motorists. It contains a hand-forged blade, a magneto file, and the case is formed of a 3½ in. rule, left with a square end so that measurements can be taken from corners, etc., etc. **3/3 each.**

No. 136 Feeler Gauge with 9 blades, the handle with folding blades forming rule 9 ins. long. Blades 3 in. × ½ in. tapered .. .. .. **4/9** each

Packed in ¼ dozens

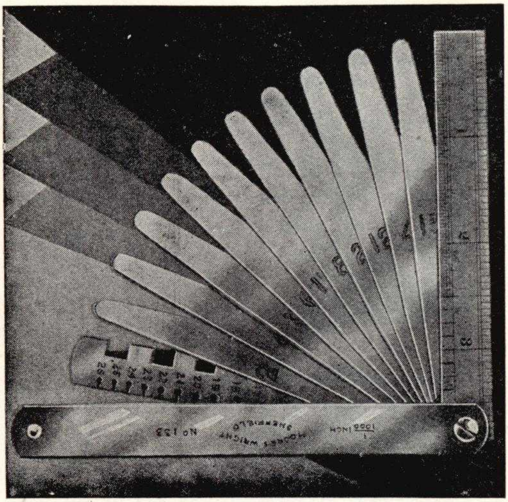
TWO NEW COMBINATION GAUGES

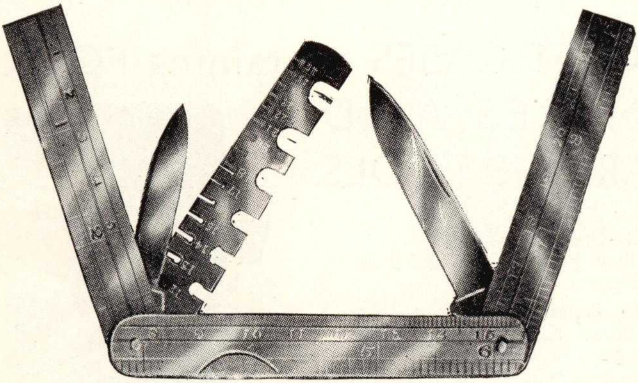
No. 131 This is a new combination of Feeler and Wire Gauges and a Flexible Rule.

The Wire Gauge is I.S.W.G. from 4-26.

The Feelers are 4 in. long and are from 1½ to 25/1000ths and the Rule is 4 in. flexible.

Price .. 8/- each.



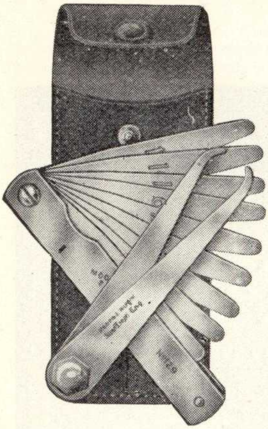


No. 151 This combination consists of 9 in. Folding Rule, 2 Knife Blades, and a Wire Gauge from 4-26 I.S.W.G.

Price .. 8/- each

Packed in ¼ dozens

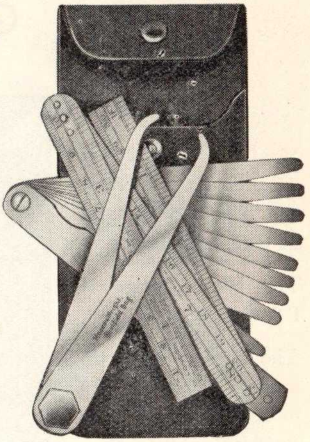
TOOLS IN POCKET CASES



No. **370** 2 Piece.
3 in. Feeler Gauge,
No. 129, 9 blades.
3 in. Calliper,
No. 330.
As illustration.
5/6 each.

No. **371.**
4 in. Feeler Gauge,
No. 130, 9 blades.
4 in. Calliper,
No. 330.
6/– each.

No. **372** 3 Piece.
3 in. Feeler Gauge,
9 blades, No. 129.
3 in. Calliper,
No. 330.
9 in. Rule, 3 fold.
7/6 each.



No. **373.** 4 in. Feeler Gauge, 9 blades, No. 130. 4 in. Calliper, No. 330. 12 in. Rule, 3 fold .. **8/6** each.

The Tools in these wallets can be varied to suit customers' requirements.

Special Quotations for large Quantities.

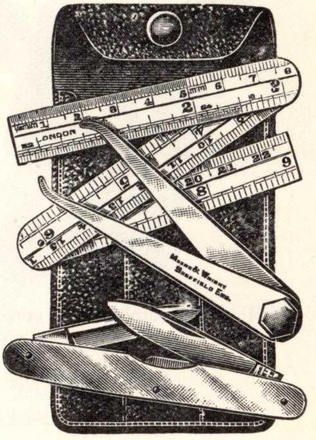
Many of these articles can be supplied in Stainless.

Particulars on application.

POCKET CASES containing POCKET KNIVES AND VARIOUS TOOLS

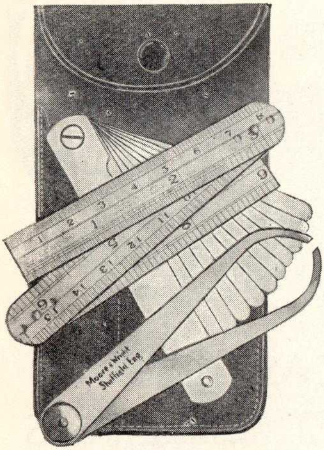
No. 370K Containing— 2 Blade Pocket Knife and 3 in. Calliper	4/–
No. 372K Containing— 2 Blade Knife, 3 in. Feeler Gauge, 3 in. Calliper	7/6
No. 382K Containing— 2 Blade Knife, 9 in. Folding Rule, 3 in. Calliper	5/9

The Tools in the Wallets can be varied as required.



TOOLS IN POCKET CASES

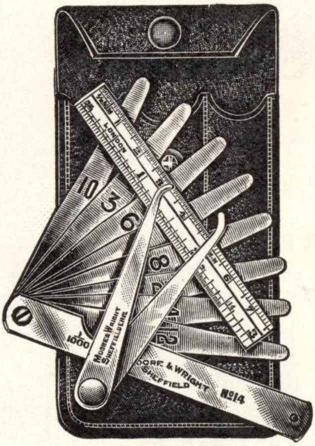
- SPECIAL CASES OR SETS CAN BE MADE UP TO YOUR REQUIREMENTS AND ANY KIND OF TRADE MARK OR DEVICE CAN BE GOLD-BLOCKED AT A SLIGHTLY EXTRA CHARGE



A1

It contains 9″ three-fold rule, 3″ feeler gauge, $3\frac{1}{4}$″ calliper.

Price .. 5/6 each.



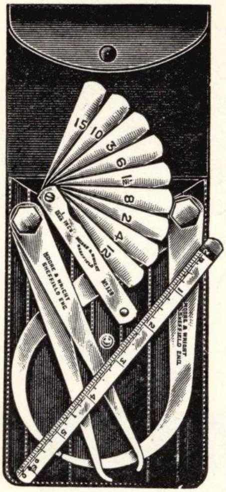
No. 380

It contains a 3″ rule, a No. 14 feeler gauge with 8 blades, and a $2\frac{1}{4}$″ calliper, all of the M. & W. quality.

Specially thin to lay flat in the pocket.

Price .. 5/6 each

POPULAR LINES IN POCKET CASES



This Case is fitted with :—

1 Feeler Gauge with 9 blades from 1½ to 15/1000ths.

1 Inside firm joint Calliper, 6 in.

1 Outside firm joint Calliper, 6 in.

1 Steel Rule, 12 in., 2-fold.

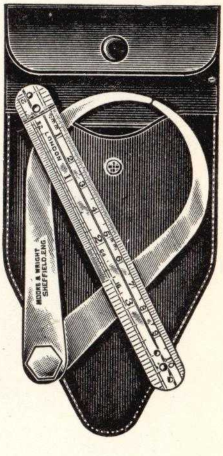
The Case is of highest grade leather with press button, and the whole set is very neat and compact

No. **375** .. .. .. Price **9/6** each.

Many of these articles can be supplied in Stainless.

Particulars on application.

No. 375

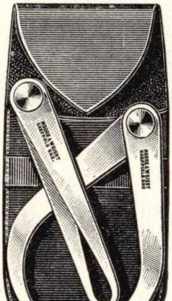


This Case of Calliper and Rule is a very neat Set at a low cost.

No. **376** With 4 in. Outside Calliper and 9 in. 3-fold rule .. .. .. **3/9** each

No. **378** With 6 in. Outside Calliper and 12 in. 3-fold rule .. .. .. **5/6** each

Many other variations of this Case can be made.



CASE OF POCKET CALLIPERS

Produced purposely to carry in the pocket. Ideally compact and superlatively useful. For presentation or sale, a splendid line.

No. **379** Price .. **1/8** per Case.

Length of Callipers 2¼ in. **"The Mighty Mites."**

Loose Callipers—

No. **300** Inside .. }
No. **301** Outside .. } 7½**d.** each.

No. 379

SETS OF TOOLS

IN FOLDING LEATHER CASE

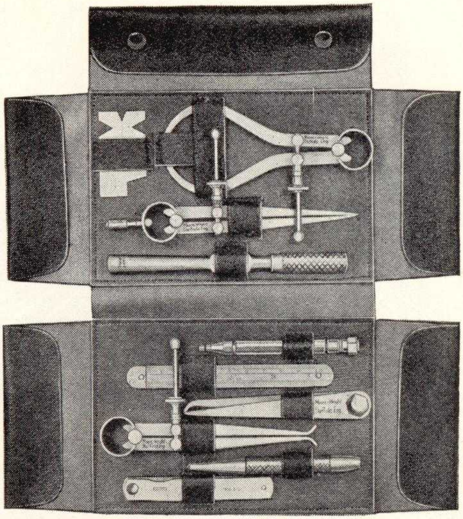
These Cases make splendid gifts, presentations, prizes, etc.

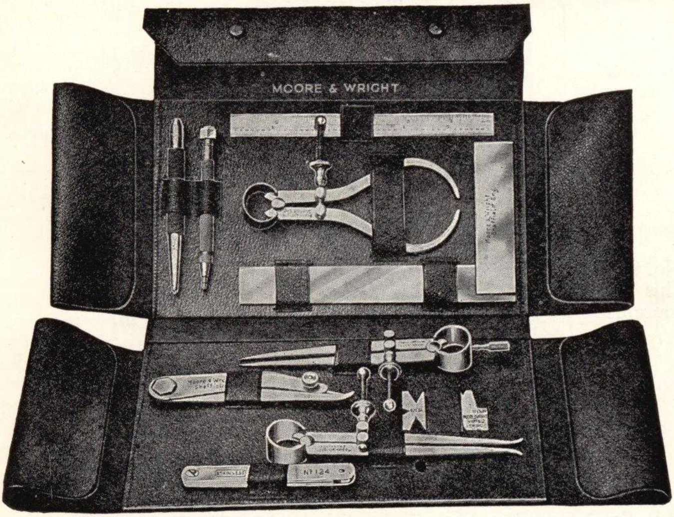
No. **374**

Case complete as shown·
Price .. 25/9

Contains 1 each Spring Divider, 4 in.; 1 Outside Spring Calliper, 4 in.; 1 Inside Spring Calliper, 4 in.; 1 Firm Joint Jenny Calliper, 4 in.; 1 Tap Holder; 1 Centre Punch; 1 Screw Cutting Gauge; 1 Feeler Gauge, 8 blade; 1 Rule, 12 in.; 1 Pocket Scriber.

We have a large selection of Cases of Tools, etc., suitable for presentation.

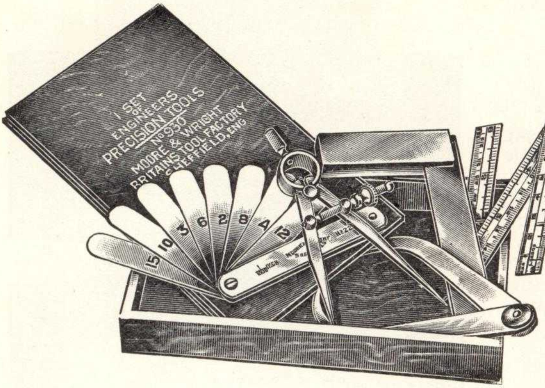




No. **384** Case complete as shown. Price .. 28/–

Contains 1 Spring Divider, 4 in.; 1 Outside Spring Calliper, 4 in.; 1 Inside Spring Calliper, 4 in.; 1 F.J. Jenny Calliper with adjustable point, 4 in.; 1 Engineer's Square, 5 in.; 1 Pocket Scriber; 1 Centre Punch; 1 Precision Feeler Gauge, 8 blades; 1 Screw-cutting Gauge; and 1 Rule, 6 in., marked 1/8ths, 1/16ths, 1/32nds, 1/64ths.

SETS OF TOOLS



These Sets are now put up in polished boxes with hinged lids and with separate slots for each Tool.

MAKE EXCELLENT PRESENTS

No. **930**
This Set
contains

1 Outside Calliper Firm Joint, No. **331**, 4 in.
1 Pair Spring Dividers, No. **50**, 3 in.
1 Precision Feeler Gauge, No. 22, Eight blades from .002 to .015
1 Precision Try Square, No. **400**, 3 in.
1 Rule, 3 fold, 9 in.
1 Box with Hinged Lid. **11/3 each**

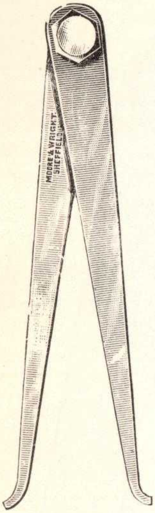
No. **931**
This Set
contains

1 Precision Feeler Gauge, No. 22, with 8 blades from .002 to .015
1 Centre Punch, No. 81C.
1 Outside Firm Joint Calliper, No. **331**, 3 in.
1 Inside Firm Joint Calliper, No. **330**, 3 in.
1 Precision Try Square, No. **400**, 3 in.
1 Box with Hinged Lid. **8/9 each**

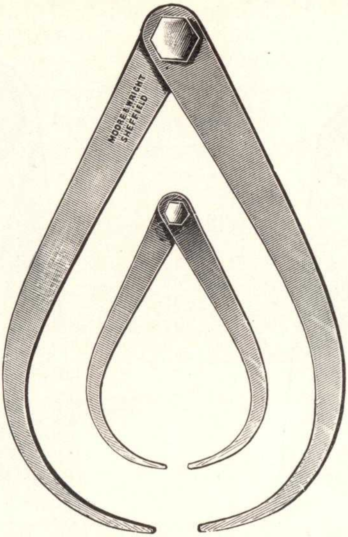
No. **932**
This Set
contains

1 Outside Firm Joint Calliper, No. **331**, 4 in.
1 Inside Firm Joint Calliper, No. **330**, 3 in.
1 Centre Punch, No. **81C**.
1 Precision Feeler Gauge, No. 22, Eight blades from .002 to .015
1 Box with Hinged Lid. **6/– each**

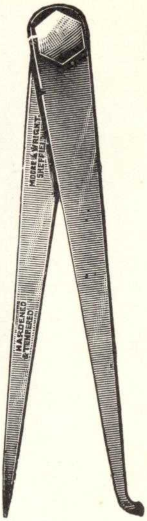
FIRM JOINT CALLIPERS



Inside, No. **330**



Outside, No. **331**



Jenny, No. **332**

These Callipers are **Stiffer** and more **Rigid** than any on the market. The nuts forming the joint are **Thoroughly Hardened,** rendering the joint smooth and even in tension, and practically doubling the life of the Callipers.

Hexagon Headed Nuts on all sizes

F.J. Callipers will measure approximately one-third greater than their nominal size.

Points not hardened but specially stiffened to resist wear.

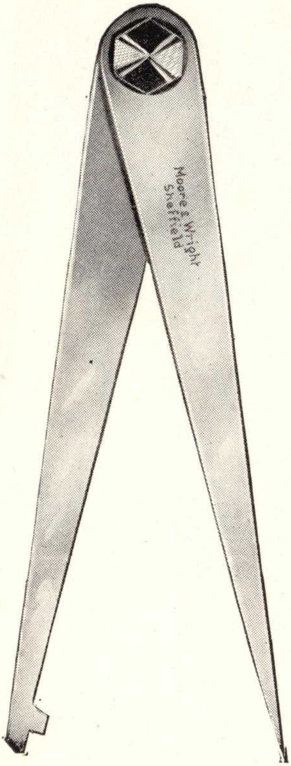
Joints of Steel with a Velvet Feel

	length	..	..	3	4	5	6	8	inch.
No. 330 Inside	price	..	..	**9d.**	**10½d.**	**1/-**	**1/3**	**2/3**	pair.
No. 331 Outside	length	10	12	15	18	24	30	36	inch.
	price	**4/-**	**4/6**	**6/6**	**8/6**	**15/-**	**30/-**	**37/6**	pair.
No. 332 Jenny		..	..	4	5	6	inch.		
				1/-	**1/3**	**1/6**	pair.		

Nuts and Bolts for Firm Joint Callipers

No. **174** Up to	4	5	6	8	10	12	18	24	inch.
	6d.	**7d.**	**7d.**	**8d.**	**10d.**	**1/-**	**1/4**	**1/8**	pair.

NEW F. J. JENNY



No. **342**

WITH SOLID POINT

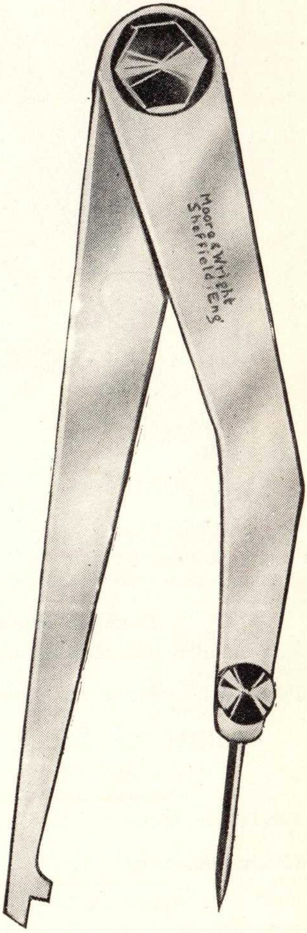
This "positive" feature improves this tool 100 per cent.

No. **342**
5 inch, **1/6** per Pair
One size only

Packed in ¼ dozens

NEW F. J. JENNY

ADJUSTABLE

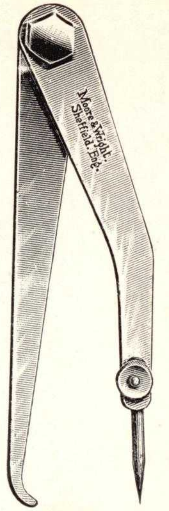


No**.** **341**

The "positive" feature registers a great advance over the old type. All uncertainty when scribing off shoulders completely abolished.

No. **341**
One size only, 5 in.,
3/– per Pair

FIRM JOINT JENNY CALLIPERS

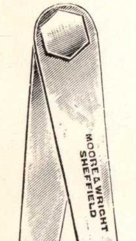


This Calliper has an adjustable point, as well as improved firm joint with hardened nuts. The joint is smooth and even in tension, and the points can be renewed for a trifling sum when necessary.

No. **336**	4 inch	**2/6** pair.
	5 inch	**2/9** ,,
	6 inch	**3/3** ,,
No. **339**	Loose points for No. 336	2d. each.
No. **175**	Nuts and Screws for No. 336 points	6d. pair.

Packed in ½ dozens.

POCKET CALLIPER



No. **338**

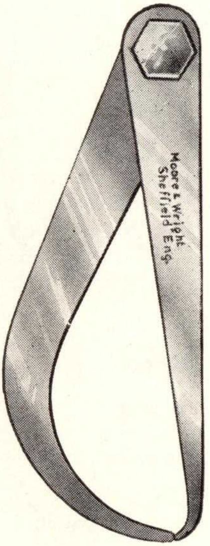
This is a most useful Calliper to carry in the pocket. For a small tool it has a wide range of both inside and outside measurements.

No. **338**

3¼	4	inch
1/-	**1/3**	each

Packed in ½ dozens.

TUBE CALLIPER



No. **344**

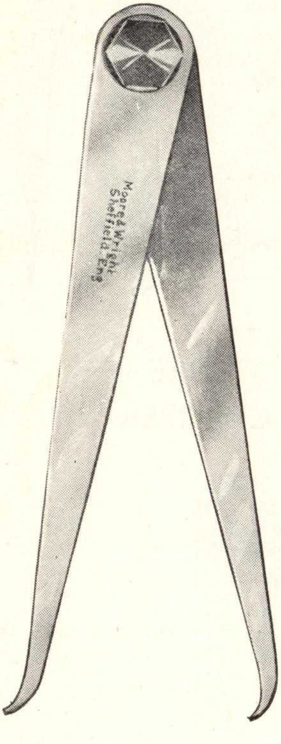
No. **344**

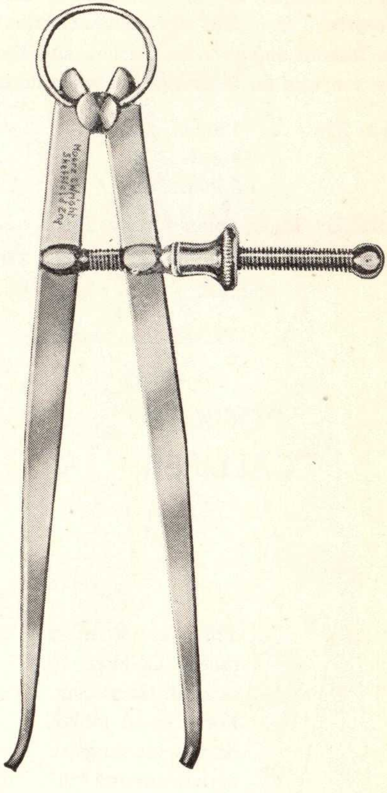
For measuring the thickness of tube walls.

3	4	inch
10d.	**1/-**	each
5	6	inch
1/3	**1/6**	each

Packed in ¼ dozens.

GEAR TOOTH CALLIPERS





No. **343**

Firm Joint type, as shown.

3	4	5	6 inch
10d.	**1/–**	**1/3**	**1/6** each

No. **58**

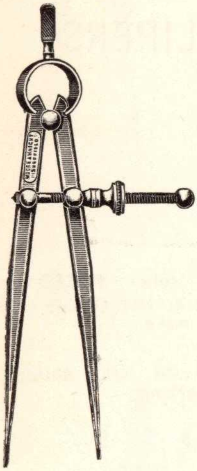
3	4	5	6 inch
1/9	**2/–**	**2/3**	**2/6** each

Packed in ¼ dozens

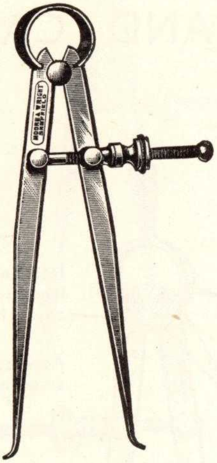
SHEFFIELD SPRING DIVIDERS AND CALLIPERS

WITH SOLID AND QUICK NUTS

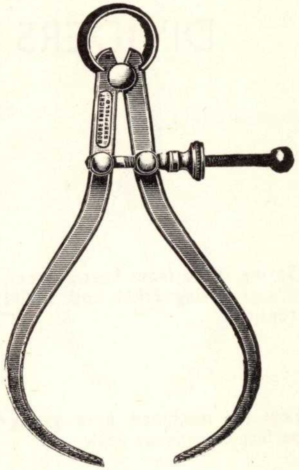
NOTE.—All our Dividers and Callipers are measured from **the joint to the point,** consequently a 3 in. measures approximately 4 in. overall. Be aware of this when ordering. These Callipers and Dividers measure their nominal size only.



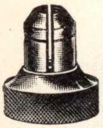
No. 50



No. 51



No. 52



Moore's Patent Quick Nut.

All Dividers have compressed and hammered points.
Full Standard Strength

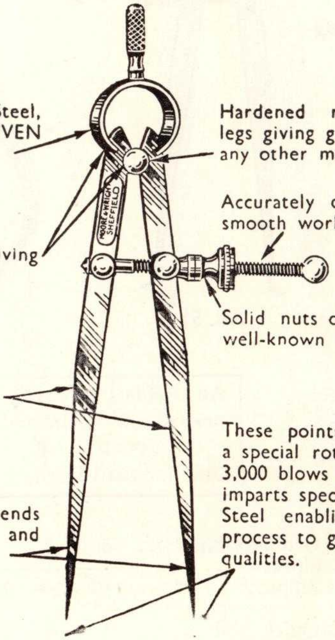
These Dividers are full strength, accurately machined and rigidly made.
All wearing parts carefully hardened.

No. 50	Dividers, Ordinary Nut	..	3	4	5	6	8	10 inch
No. 51	Inside Callipers ,,							
No. 52	Outside Callipers ,,	..	1/9	2/–	2/3	2/6	4/6	5/9 pair
No. 53	Dividers, Quick Nut	..	3	4	5	6	8	10 inch
No. 54	Inside Callipers ,,							
No. 55	Outside Callipers ,,	...	2/6	2/9	3/–	3/3	5/3	6/6 pair

Packed in ½ dozens and ¼ dozens.

IT IS NOT POSSIBLE TO MAKE BETTER TOOLS.

POINTS OF SUPERIORITY
OF
M&W
DIVIDERS AND CALLIPERS



Spring made from Special Steel, always giving FIRM and EVEN tension.

Hardened roller FITTED to legs giving greater rigidity than any other make.

Accurately cut screw ensuring smooth working.

Legs are machined here giving perfect bearing on roller.

Solid nuts or quicknuts of our well-known design.

Legs made of Cast Steel.

These points are hammered in a special rotary hammer giving 3,000 blows per minute. This imparts special toughness to the Steel enabling the hardening process to give lasting wearing qualities.

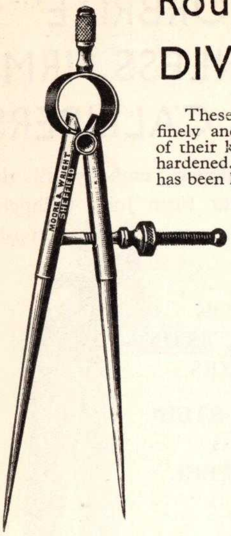
Legs accurately shaped near ends giving good appearance and absence of chatter in use.

MORE RIGID THAN ANY OTHER MAKE

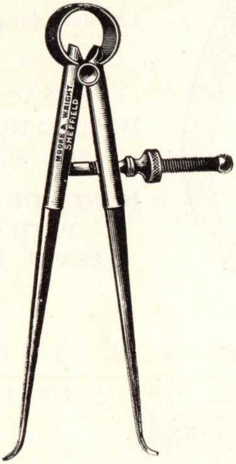
MOORE & WRIGHT (SHEFFIELD) LTD. ENGLAND

Round Leg TOOLMAKERS' DIVIDERS and CALLIPERS

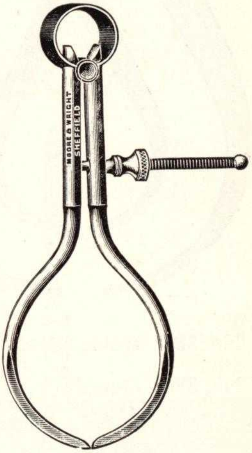
These Tools are made from round bar with the legs drawn down are finely and accurately finished and may be regarded as the finest tools of their kind. The springs are finely tempered, and the fulcrum stud is hardened. They are made in one size only, namely, 3 inch, and the price has been kept low in order to bring them within reach of all.



No. 65

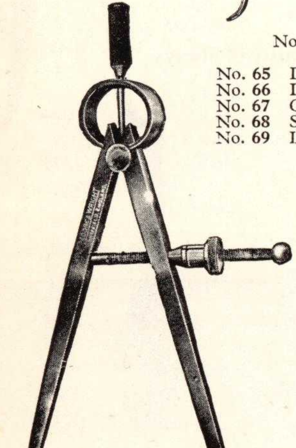


No. 66



No. 67

No. 65	Dividers,	3 in., one size only	..	4/3	each
No. 66	Inside Callipers,	3 in. ,,	..	4/3	,,
No. 67	Outside ,,	3 in. ,,	..	4/3	,,
No. 68	Set of 3 in folding leather case	..	..	14/6	,,
No. 69	Leather case only	.. .. ..	..	3/-	,,



THE HECTOR SPRING DIVIDER

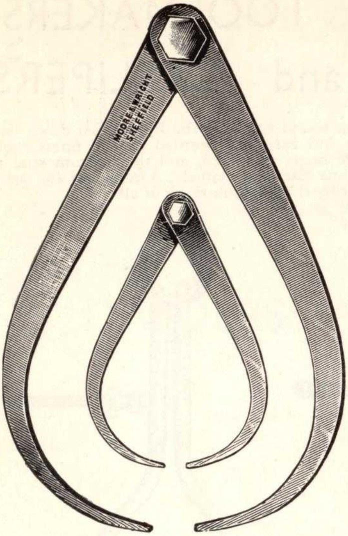
This is the Spring Divider which in open competition with all other makes secured the British Government contract when it was decided to improve the Service tools.

In point of rigidity, durability and pleasure of using, it is unequalled. It is fitted with split nut, giving instantaneous opening and closing, the spring is an example of the springmaker's art, and the finish and fitting will be found all that can be desired.

No. 60 .. .. 5/9 per pair

Made in 6 in. size only

Packed in ½ dozens

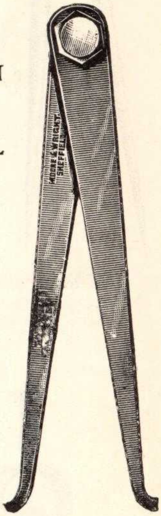


"MOORBRITE" STAINLESS FIRM JOINT CALLIPERS

These Callipers embody all the qualities of our Firm Joint Callipers, i.e., durability, even tension and finish.

HEXAGON
HEADED NUTS ON
ALL SIZES

**JOINTS OF STEEL
WITH A
VELVET FEEL**



No. 385 Inside	.. length	3	4	5	6	inch
No. 386 Outside	.. price	1/8	2/2	2/9	3/3	pair

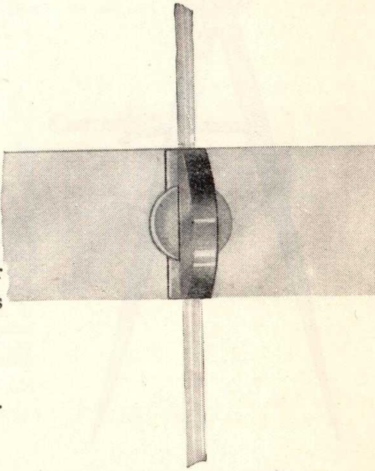
Packed in ½ dozens.

These Callipers will never rust, and the joints will always remain good and smooth.

DEPTH GAUGE ADAPTOR

No. 40R

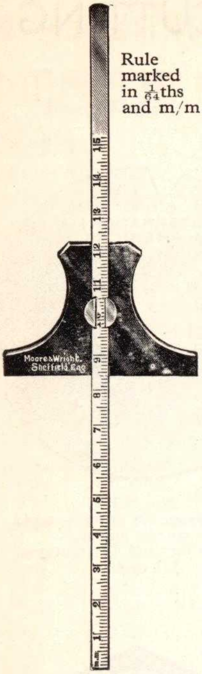
With this device a round rod (for small holes) can be used in Depth Gauges No. 40 to 43, as shown on page 101.



No. 40R Attachment complete with rod.

Price .. 1/9 each

DEPTH GAUGES

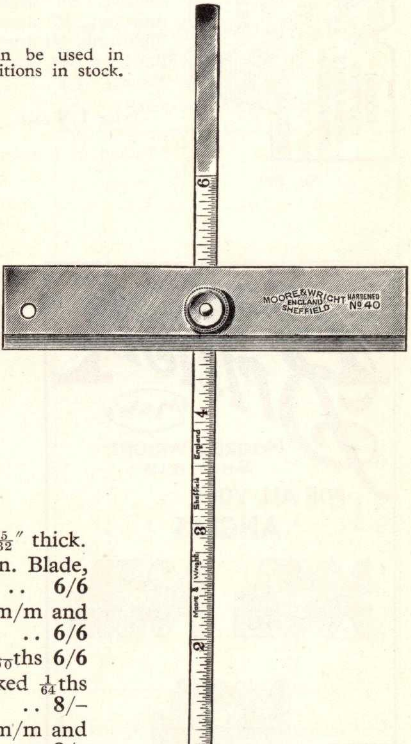


Rule marked in $\frac{1}{64}$ths and m/m

The Depth Gauge illustrated herewith represents our remodelled No. 43. It is fitted with a 6 in. narrow steel rule. The body has been increased in thickness, and shortened in length, and this will be found a substantial advantage, it being now a much more rigid and substantial tool than formerly. The locking nut arrangement is new and constitutes a great improvement.

The heads are case-hardened. The base line is ground true. Base $\frac{5}{32}$″ thick.

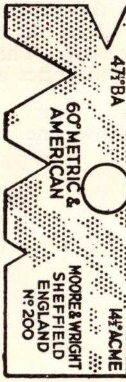
Rule can be used in two positions in stock.



No. **43** as described and illustrated .. 5/6 each
No. **43A**, $\frac{1}{64}$ths and $\frac{1}{100}$ths .. 5/6 each
No. **43B**, 12″ Rule, $\frac{1}{64}$ths and $\frac{1}{100}$ths only 7/6 each
No. **43M** 150 m/m Rule, in m/m and $\frac{1}{2}$ m/m 5/6 each

The bases of Nos. 40, 41 & 42 are $\frac{5}{32}$″ thick.
No. **40** With $3\frac{1}{2}$ in. stock and 6 in. Blade, marked in $\frac{1}{64}$ths and millimetres .. 6/6
No. **40M**, as No. 40, but Rule in m/m and $\frac{1}{2}$ m/m 6/6
No. **40A** Rule marked $\frac{1}{64}$ths and $\frac{1}{100}$ths 6/6
No. **41** 6 in. stock, 6 in. Rule, marked $\frac{1}{64}$ths and millimetres 8/–
No. **41M**, as No. 41, but Rule in m/m and $\frac{1}{2}$ m/m 8/–
No. **41A** 6 in. stock, 6 in. Rule, marked $\frac{1}{64}$ths and $\frac{1}{100}$ths 8/–
No. **42A** With 6 in. stock and 12 in. Rule, marked $\frac{1}{64}$ths and $\frac{1}{100}$ths 9/9
Packed in $\frac{1}{4}$ dozens

IMPROVED SCREW-CUTTING GAUGES



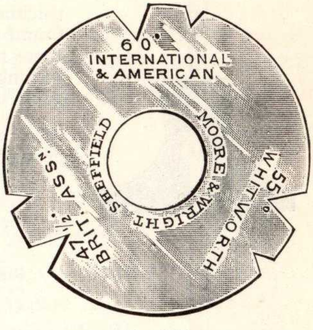
No. 200

No. 200

The old Gauge with the angle piece is now abandoned, and the new Gauge is introduced as being more useful to the Engineer. It now contains four Gauges, namely, 60 degrees American, 55 degrees Whitworth, 47½ degrees B.A. and 14½ degrees Acme.

Price **1/9** each

Packed in ½ dozens



No. 203
Useful Gauge for grinding tools to correct angles.
B.S.F. Whit. and International
1/1 each.

No. 200A .. **5/3** per Card

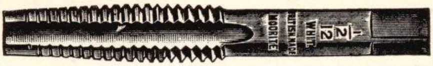
No. 203A .. **6/6** per Card

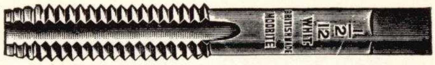
STANDARD THREAD TAPS

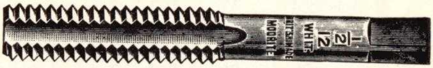
Finest Quality
Four Fluted

TAPER.
SECOND.
BOTTOMING.

Add letter T for Taper; S for Second; and B for Bottoming to No. when ordering. For example, 843T $\frac{1}{8}$ in. means No. 843 taper $\frac{1}{8}$ in.







WHITWORTH.
No. 843

Dia. of Tap, inches.	Threads per inch.	Tapping Drill.	Price each
$\frac{1}{16}$	60	No. 56	**1/–**
$\frac{3}{32}$	48	No. 50	**7d.**
$\frac{1}{8}$	40	No. 40	**6d.**
$\frac{5}{32}$	32	No. 31	**6d.**
$\frac{3}{16}$	24	No. 28	**6d.**
$\frac{7}{32}$	24	$\frac{11}{64}$	**6d.**
$\frac{1}{4}$	20	5 m/m	**6d.**
$\frac{5}{16}$	18	$\frac{1}{4}$	**9d.**
$\frac{3}{8}$	16	$\frac{5}{16}$	**1/–**
$\frac{7}{16}$	14	$\frac{23}{64}$	**1/2**
$\frac{1}{2}$	12	W	**1/3**
$\frac{9}{16}$	12	$\frac{15}{32}$	**1/6**
$\frac{5}{8}$	11	$\frac{33}{64}$	**1/9**
$\frac{3}{4}$	10	$\frac{5}{8}$	**2/6**
$\frac{7}{8}$	9	$\frac{47}{64}$	**3/–**
1	8	$\frac{27}{32}$	**3/6**
$1\frac{1}{8}$	7	$\frac{61}{64}$	**6/6**
$1\frac{1}{4}$	7	$1\frac{3}{64}$	**8/6**
$1\frac{3}{8}$	6	$1\frac{11}{64}$	**9/3**
$1\frac{1}{2}$	6	$1\frac{19}{64}$	**11/6**
$1\frac{5}{8}$	5	$1\frac{3}{8}$	**14/–**
$1\frac{3}{4}$	5	$1\frac{1}{2}$	**16/6**
$1\frac{7}{8}$	$4\frac{1}{2}$	$1\frac{19}{32}$	**20/–**
2	$4\frac{1}{2}$	$1\frac{23}{32}$	**23/–**

BRITISH STANDARD FINE.
No. 845 (**B.S.F.**)

Up to $\frac{5}{32}''$ dia. B.S.F. is the same as Whitworth.

Dia. of Tap, inches.	Threads per inch.	Tapping Drill.	Price each
$\frac{3}{16}$	32	24	**6d.**
$\frac{7}{32}$	28	16	**6d.**
$\frac{1}{4}$	26	6	**6d.**
$\frac{9}{32}$	26	B	**10d.**
$\frac{5}{16}$	22	F	**9d.**
$\frac{3}{8}$	20	O	**1/–**
$\frac{7}{16}$	18	U	**1/2**
$\frac{1}{2}$	16	$\frac{27}{64}$	**1/3**
$\frac{9}{16}$	16	$\frac{31}{64}$	**1/6**
$\frac{5}{8}$	14	$\frac{35}{64}$	**1/9**
$\frac{11}{16}$	14	$\frac{39}{64}$	**2/3**
$\frac{3}{4}$	12	$\frac{21}{32}$	**2/6**
$\frac{7}{8}$	11	$\frac{49}{64}$	**3/–**
1	10	$\frac{7}{8}$	**3/6**
$1\frac{1}{8}$	9	$\frac{63}{64}$	**6/6**
$1\frac{1}{4}$	9	$1\frac{7}{64}$	**8/6**
$1\frac{3}{8}$	8	$1\frac{7}{32}$	**9/3**
$1\frac{1}{2}$	8	$1\frac{11}{32}$	**11/6**
$1\frac{5}{8}$	8	$1\frac{15}{32}$	**14/–**
$1\frac{3}{4}$	7	$1\frac{37}{64}$	**16/6**
$1\frac{7}{8}$	7	$1\frac{45}{64}$	**20/–**
2	7	$1\frac{53}{64}$	**23/–**

All Taps $\frac{1}{8}$ in. diameter, and smaller, will be supplied with $\frac{1}{8}$ in. shanks.

All Taps from $\frac{1}{8}$ in. to $\frac{5}{16}$ in. inclusive will be supplied with shanks the same size as the tap.

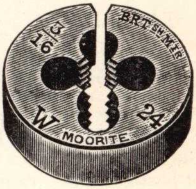
The shanks of $\frac{3}{8}$ in. taps and above are made to drop through.

Sizes and Threads not shown are subject to special prices.

NOTE.—Left Hand Taps are special at extra price.

CIRCULAR DIES

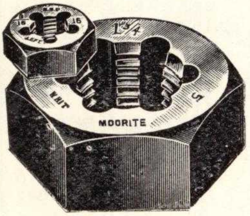
Threads per Inch.			No.	No.	No.	No.	No.
Cutting Size.	Whit.	B.S.F.	423 823 $\frac{13}{16}''$	424 824 1″	425 825 $1\frac{1}{4}''$	426 826 $1\frac{5}{16}''$	427 827 $1\frac{1}{2}''$
$\frac{1}{16}$	60	60	1/3				
$\frac{3}{32}$	48	48	1/3				
$\frac{1}{8}$	40	40	1/3	2/6			
$\frac{5}{32}$	32	32	1/3	2/6			
$\frac{3}{16}$	24	32	1/3	2/6			
$\frac{7}{32}$	24	28	1/3	2/6			
$\frac{1}{4}$	20	26	1/3	2/6	3/9	3/9	5/–
$\frac{9}{32}$	20	26	1/3	2/6	3/9	3/9	5/–
$\frac{5}{16}$	18	22	1/3	2/6	3/9	3/9	5/–
$\frac{11}{32}$	18	22	1/3	2/6	3/9	3/9	5/–
$\frac{3}{8}$	16	20	1/3	2/6	3/9	3/9	5/–
$\frac{7}{16}$	14	18		2/6	3/9	3/9	5/–
$\frac{1}{2}$	12	16		2/6	3/9	3/9	5/–
$\frac{9}{16}$	12	16			4/–	4/–	5/–
$\frac{5}{8}$	11	14			4/–	4/–	5/–
$\frac{3}{4}$	10	12					5/–



No. 823 to No. 827 } Whit.

No. 423 to No. 427 } B.S.F.

DIE NUTS



No. 875

WHITWORTH AND B.S.F. THREADS

No. 875 Whitworth.

No. 876 B.S.F.

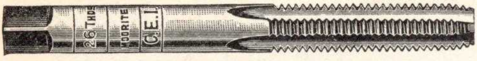
These Dies, which are generally used for dressing bruised and old threads, are screwed $\frac{2}{1000}$ under size, which thus facilitates the nuts and female parts assembling easily.

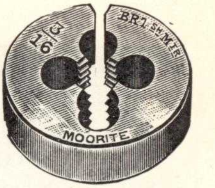
$\frac{1}{4}$ in.	2/– each	1 in.	5/6 each
$\frac{5}{16}$ in.	2/– ,,	$1\frac{1}{8}$ in.	7/– ,,
$\frac{3}{8}$ in.	2/6 ,,	$1\frac{1}{4}$ in.	7/6 ,,
$\frac{7}{16}$ in.	2/6 ,,	$1\frac{3}{8}$ in.	8/6 ,,
$\frac{1}{2}$ in.	2/9 ,,	$1\frac{1}{2}$ in.	9/9 ,,
$\frac{5}{8}$ in.	4/– ,,	$1\frac{3}{4}$ in.	18/– ,,
$\frac{3}{4}$ in.	4/4 ,,	2 in.	25/6 ,,
$\frac{7}{8}$ in.	5/– ,,		

HAND TAPS AND DIES

C.E.I. STANDARD

CYCLE MOTOR THREAD





TAPS No. 835

Taper, Second or Bottoming.

Size.	Threads per inch.	Each.	Size	Threads per inch.	Each.
$\frac{1}{8}$	40	**10d.**	$\frac{3}{8}$	20	1/2
$\frac{3}{16}$	26	**10d.**	$\frac{3}{8}$	24	1/2
$\frac{3}{16}$	28	**10d.**	$\frac{3}{8}$	26	1/2
$\frac{3}{16}$	32	**10d.**	$\frac{3}{8}$	32	1/2
$\frac{1}{4}$	24	**10d.**	$\frac{7}{16}$	19	1/5
$\frac{1}{4}$	26	**10d.**	$\frac{7}{16}$	20	1/5
$\frac{1}{4}$	28	**10d.**	$\frac{7}{16}$	24	1/5
$\frac{1}{4}$	30	**10d.**	$\frac{7}{16}$	26	1/5
$\frac{5}{16}$	20	1/1	$\frac{1}{2}$	19	1/7
$\frac{5}{16}$	24	1/1	$\frac{1}{2}$	20	1/7
$\frac{5}{16}$	26	1/1	$\frac{1}{2}$	24	1/7
$\frac{5}{16}$	28	1/1	$\frac{1}{2}$	26	1/7
$\frac{5}{16}$	30	1/1	$\frac{9}{16}$	20RH	1/10
$\frac{5}{16}$	32	1/1	$\frac{9}{16}$	20LH	1/10

DIES

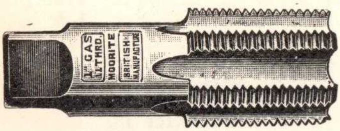
(Numbers over each column)

C.E.I. and Motor Threads.

				Outside Diameter			
	Threads	Nos.		836	837	838	839
Size.	per inch			$\frac{13}{16}$	1	$1\frac{1}{4}$	$1\frac{5}{16}$
$\frac{1}{8}$	40			2/–	3/–		
$\frac{3}{16}$	26	28		2/–	3/–		
	30	32		2/–	3/–		
$\frac{1}{4}$	24			2/–	3/–	6/3	
	28	30		2/–	3/–	6/3	
$\frac{1}{4}$	26			2/–	3/–	6/3	
$\frac{5}{16}$	20	24	26	2/–	3/–	6/3	
	28	30	32	2/–	3/–	6/3	
$\frac{3}{8}$	20	24	26	2/–	3/–	6/3	
	32				3/–	6/3	
$\frac{7}{16}$	19	20	24		3/–	6/3	
$\frac{1}{2}$	19	20	24		3/–	6/3	
$\frac{9}{16}$	20	R and L			3/–	6/3	

GAS TAPS

(IRON).



No. 840

$\frac{1}{8}$ in.	.. ..	1/3 each
$\frac{1}{4}$ in.	.. ..	1/8 „
$\frac{3}{8}$ in.	.. ..	2/– „
$\frac{1}{2}$ in.	.. ..	2/6 „
$\frac{5}{8}$ in.	.. ..	3/– „
$\frac{3}{4}$ in.	.. ..	3/8 „
$\frac{7}{8}$ in.	.. ..	4/9 „
1 in.	.. ..	5/3 „
$1\frac{1}{4}$ in.	.. ..	7/– „
$1\frac{1}{2}$ in.	.. ..	9/– „
$1\frac{3}{4}$ in.	.. ..	10/6 „
2 in.	.. ..	16/– „

All Left Hand Threads are Special Prices.

HAND TAPS

B.A. (BRITISH ASSOCIATION) THREAD

No. 841

TAPER, SECOND OR BOTTOMING

State which are required when ordering.

No.	Pitch m/m	Price. Each.	Set.
0	1·00	**6d.**	**1/6**
1	·90	**6d.**	**1/6**
2	·81	**6d.**	**1/6**
3	·73	**6d.**	**1/6**
4	·66	**6d.**	**1/6**
5	·59	**6d.**	**1/6**
6	·53	**6d.**	**1/6**
7	·48	**6d.**	**1/6**
8	·43	**6d.**	**1/6**
9	·39	**1/–**	**3/–**
10	·35	**1/–**	**3/–**

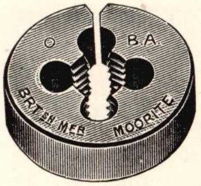
No. 848

MODEL ENGINEER THREAD HAND TAPS.

Taper, Second and Bottoming.

Size	Price	
$\frac{5}{32}$ × 40 TPI	**9d.**	each
$\frac{3}{16}$ × 40 TPI	**9d.**	„
$\frac{7}{32}$ × 40 TPI	**10½d.**	„
$\frac{1}{4}$ × 40 TPI	**1/–**	„
$\frac{3}{8}$ × 32 TPI	**1/6**	„
$\frac{3}{8}$ × 40 TPI	**1/6**	„
$\frac{7}{16}$ × 32 TPI	**2/4**	„
$\frac{7}{16}$ × 40 TPI	**2/8**	„
$\frac{1}{2}$ × 32 TPI	**2/8**	„
$\frac{1}{2}$ × 40 TPI	**3/-**	„

ADJUSTABLE CIRCULAR DIES British Association Thread



No. 821

Outside Diameter $\frac{13}{16}$ in.

No.	Pitch m/m	Price.	
0	1·00	**1/3**	each
1	·90	**1/3**	„
2	·81	**1/3**	„
3	·73	**1/3**	„
4	·66	**1/3**	„
5	·59	**1/3**	„
6	·53	**1/3**	„
7	·48	**1/3**	„
8	·43	**1/3**	„
9	·39	**1/10**	„
10	·35	**1/10**	„

MODEL ENGINEER ROUND DIES.

No. 849

Diameter $\frac{13}{16}$ in.

Size	Price	
$\frac{5}{32}$ × 40 thds.	**1/6**	each
$\frac{3}{16}$ × 40 „	**1/6**	„
$\frac{7}{32}$ × 40 „	**1/6**	„
$\frac{1}{4}$ × 40 „	**1/6**	„
$\frac{3}{8}$ × 32 „	**1/6**	„
$\frac{3}{8}$ × 40 „	**1/6**	„

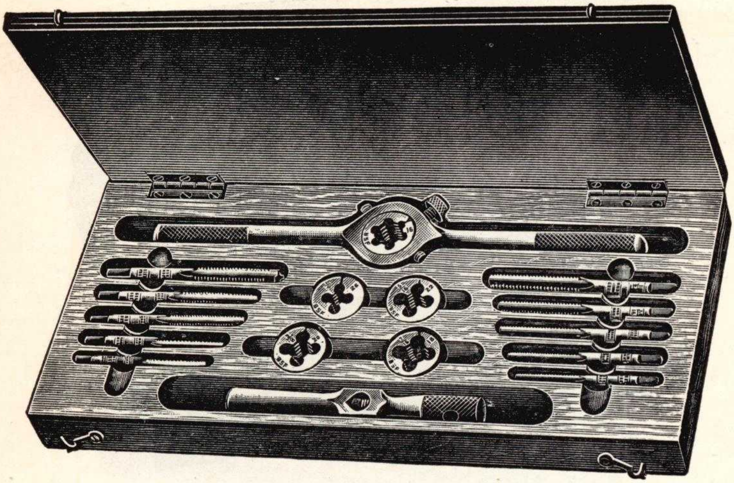
No. 849A

Diameter 1″.

Size	Price	
$\frac{7}{16}$ × 32 thds.	**3/6**	each
$\frac{7}{16}$ × 40 „	**4/–**	„
$\frac{1}{2}$ × 32 „	**4/–**	„
$\frac{1}{2}$ × 40 „	**4/3**	„

"MOORITE" STOCKS & DIES

IN HARDWOOD CASES



No. **862**

British Standard Fine Thread

(B.S.F.)

The above Case shows a set of $\frac{1}{4}$ in., $\frac{5}{16}$ in., $\frac{3}{8}$ in., $\frac{7}{16}$ in., $\frac{1}{2}$ in., with both taper and bottoming taps, tap wrench, die holder, and five circular dies of the sizes given. The price of this set is **36/6**

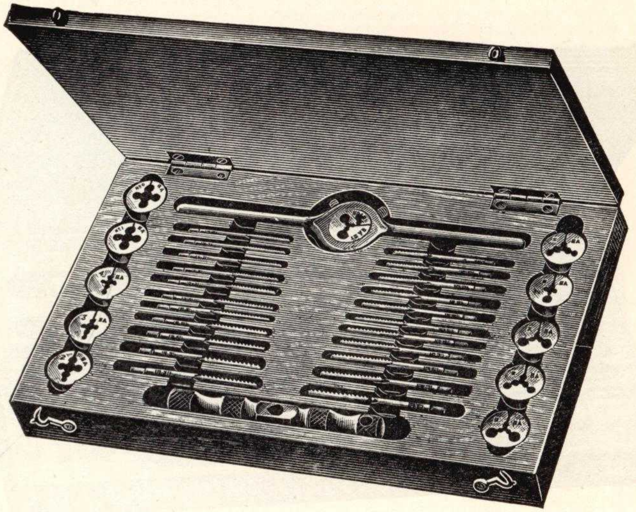
All 1 in. dia. dies.

No. 105 Tapholder is now fitted to this set.

Stocked in all the regular ranges.

"MOORITE" STOCKS & DIES

IN HARDWOOD CASES



No. 863

British Association Thread (B.A.). Any other range than those specified below can be supplied at short notice.

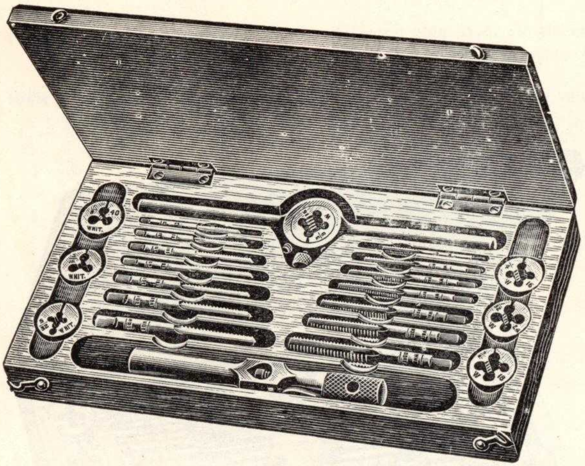
No. 863		863/1 With stock and dies and taper taps only.	863/2 With taper taps and tap wrench.	863/3 With taper and bott. taps, and tap wrench.
A Cutting sizes ..	0, 1, 2			
B „ „ ..	0, 2, 4	11/–	12/–	14/6
C „ „ ..	1, 2, 3			
D „ „ ..	2, 4, 6			
E „ „ ..	3, 4, 5			
F „ „ ..	6, 7, 8			
G „ „ ..	0, 1, 2, 3, 4	15/–	16/–	20/–
H „ „ ..	5, 6, 7, 8, 9	16/–	17/–	21/–
I „ „ ..	0, 2, 4, 6, 8	15/–	16/–	20/–
J „ „ ..	1, 3, 5, 7, 9	16/–	17/–	21/–
K „ „ ..	2, 4, 6, 8, 10	16/–	17/–	21/–
L „ „ .. as illustration.	0–10 inclusive—	30/–	31/–	38/–

"MOORITE" STOCKS AND DIES
IN HARDWOOD CASES

The Cases shown on this page and the next are a selection from a series. They are of the same high quality always associated with our mark, and we guarantee that for durability, ease of working and finely-finished product they are unequalled.

These goods are thoroughly tested after every manufacturing operation and are offered with full confidence.

Any range of sizes other than those mentioned below can be supplied at short notice.



No. 861

WHITWORTH STANDARD THREAD.

No. 861 WITH TAPER TAPS, DIES, DIEHOLDER AND TAP WRENCH.

A $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$ in. 12/-

B $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$ in. 12/-

C $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ in. 12/-

D $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$ in. 12/-

E $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ in. 16/-

F $\frac{1}{8}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$, $\frac{5}{16}$ in. 17/-

G $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$ in. 17/-

GIVE No. AND LETTER WHEN ORDERING.

H	$\frac{1}{16}$	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$ in. 21/-
I	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$ in. 21/-
J	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$ in. 21/-
K	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$	$\frac{11}{32}$	$\frac{3}{8}$ in. 21/-

For Sets with Taper and Bottoming Taps see next page.

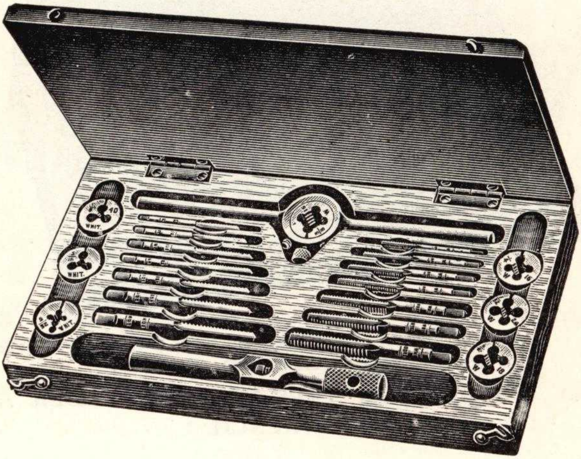
"MOORITE" STOCKS AND DIES

IN HARDWOOD CASES

The Cases shown on this page and the next are a selection from a series. They are of the same high quality always associated with our mark, and we guarantee that for durability ease of working and finely-finished product they are unequalled.

These goods are thoroughly tested after every manufacturing operation and are offered with full confidence.

Any range of sizes other than those mentioned below can be supplied at short notice.



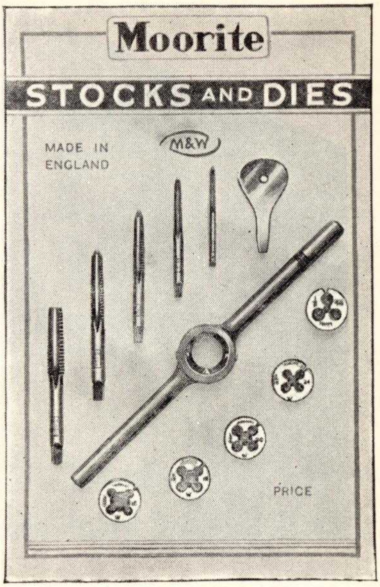
No. 861/1

No. 861/1 WITH TAPER AND BOTTOMING TAPS AND TAP WRENCH, DIES AND DIEHOLDER.

L	1/8, 5/32, 3/16, 7/32, 1/4 in.	20/-
M	1/8, 3/16, 7/32, 1/4, 5/16 in.	20/-
N	1/8, 3/16, 1/4, 5/16, 3/8 in.	21/-
O	1/4, 5/16, 3/8, 7/16, 1/2 in.	36/-
P	1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8 in.	26/-
Q	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 1/4 in.	292/-
R	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4 in.	two tap wrenches 92/-

Any other range quoted for on request.

ENGINEERS' STOCKS, DIES AND TAPS



CARDED SERIES WHITWORTH THREAD

Sizes Cutting.							With Taper Taps, Dies and Holder.
No. 850	$\frac{1}{16}$	$\frac{3}{32}$	$\frac{1}{8}$	..		..	8/–
,, 851	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{5}{32}$	..		..	7/–
,, 852	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	..		..	7/–
,, 853	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$	..		..	7/–
,, 854	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	..		..	7/–
,, 855	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	..		..	7/6
,, 856	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	..		..	7/6
,, 857	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$		..	9/3
,, 858	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$		..	9/3
,, 859	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	..	10/9
,, 860	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	..	11/3

With Taper and Plug Taps, Dies and Holder.

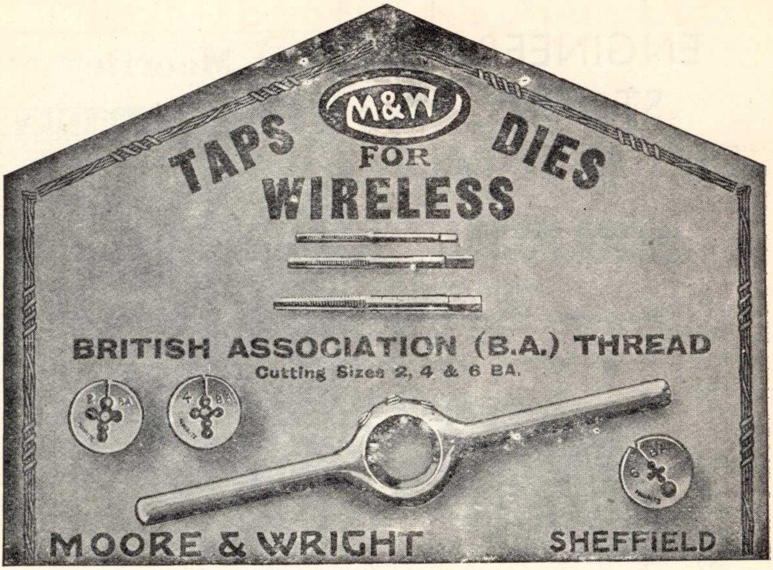
No. 850P	10/–	No. 854P	8/6	No. 858P	11/6
,, 851P	8/6	,, 855P	9/–	,, 859P	14/–
,, 852P	8/6	,, 856P	9/–	,, 860P	14/6
,, 853P	8/6	,, 857P	11/6		

Screwdriver is added to all these Sets Free of Charge.

Tapholder can be added to any No. up to 854 at 1/– extra, and to all Nos. 855 and above at 1/8 extra.

Any Assortment of sizes can be made up on request.

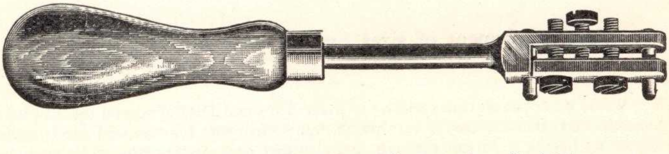
NOTE.—While we are at all times willing to make Taps and Dies of special threads, we wish to advise customers that the cost is very much higher than that for standard goods, owing to small quantities having to be put through, and also that new masters have to be made before the work of making the specials can begin. We shall always charge as reasonably as possible but we have thought it advisable to mention that whenever goods are not made in large quantities the price is proportionately higher.



No. **804** Consisting of one **drop-forged steel** die-holder, one tap and adjustable die for each, 2, 4 and 6 B.A. thread .. .. **7/6** per set

No. **804D** Exact as illustration, but **with the addition of one tapping size twist drill** for each of the three size taps .. .. **8/3** per set

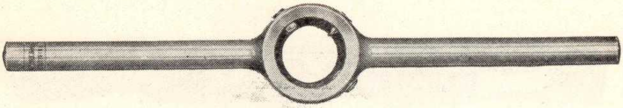
HAND KNURL HOLDER



No. **420** A most substantial tool, adjustable to take all thicknesses up to $\frac{11}{16}$ in. dia. and $\frac{3}{8}$ in. thickness.

Price .. .. **3/9** each

AMERICAN PATTERN DIE HOLDERS



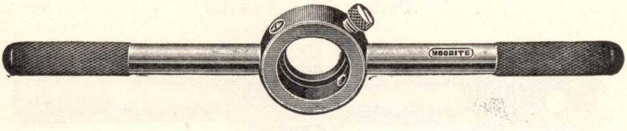
Forged Steel. Bright Finish.

No. **115** Holding $\frac{13}{16}$ in. dies .. .. 1/9 each

NOTE.—Having 3 adjusting screws these Die Holders will hold any type of die.

Packed in $\frac{1}{2}$ dozens.

CIRCULAR DIE STOCKS



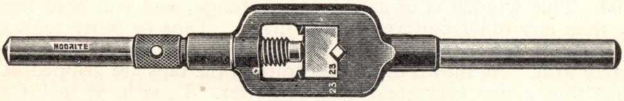
No. **884**

The small Stocks are made from Drop Steel Forgings, the larger Stocks are machined from Mild Steel, consequently they all have a very clean appearance. Both handles are knurled, and the centre is highly finished, and their general quality and finish are far in advance of the usual Die Stock now on the market.

B	To take Circular Dies	1 in. diam.	3/– each
C	„ „	$1\frac{1}{4}$ in. „	8/6 „
D	„ „	$1\frac{5}{16}$ in. „	8/6 „
E	„ „	$1\frac{1}{2}$ in. „	10/6 „
F	„ „	$1\frac{3}{4}$ in. „	12/6 „
G	„ „	2 in. „	16/– „

Packed singly.

ADJUSTABLE TAP WRENCHES



No. **885**

These tools are made from best Sheffield Steel, are well made and finished and are accurate and strong.

A	Taking Taps	$\frac{1}{4}$ to $\frac{1}{2}$ in.	5/3 each
B	„	$\frac{1}{4}$ to $\frac{3}{4}$ in.	12/8 „
C	„	$\frac{1}{2}$ to 1 in.	17/6 „
D	„	$\frac{3}{4}$ to $1\frac{1}{2}$ in.	27/– „

Packed singly.

IMPROVED TOOL AND TAP HOLDERS

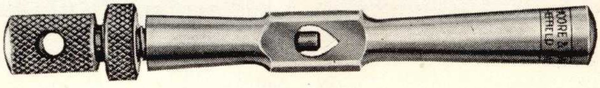
Patent applied for.

No. **102** This little tool will hold reamers, taps, drills, etc., of any shape, round, square or oval. It is nicely knurled and finished. The handles near the ends are recessed to prevent the fingers sliding off during use. Size, 4 in. long, $\frac{7}{16}$ in. diameter. Capacity 0 to $\frac{1}{4}$ in.

Fitted with LOCK-NUT to prevent tap working loose during use.

Price .. **11d.** each.

Packed in $\frac{1}{2}$ dozens.



Patent applied for.

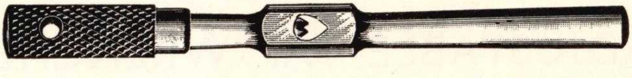
No. **103** This little tool is of the same capacity as No. 102 above, and is of superior design and handier to use ; lighter, but just as strong.

Length, $3\frac{1}{2}$ in. ; Dia. $\frac{7}{16}$ in. ; Capacity, 0 to $\frac{1}{4}$ in. Price .. 1/– each

No. **111** As No. 103, but taking up to $\frac{3}{8}$ in. .. .. .. 1/8 „

Fitted with LOCK-NUT to prevent tap working loose during use.

Packed in $\frac{1}{2}$ dozens.



No. **104** This wrench is of an improved design, and will hold taps more rigidly than any other pattern wrench made. Taps or other tools such as reamers, drills, etc., with either square or round shanks can be held absolutely firm. As shown in the illustration, the taps are gripped *in a V at each side* thus giving very great holding power. Length, $5\frac{3}{4}$ in. Capacity, $\frac{1}{8}$ in. to $\frac{3}{8}$ in. taps.

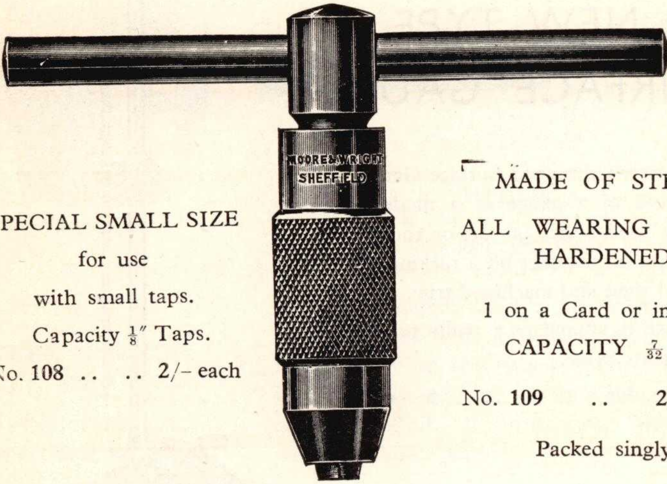
Packed in $\frac{1}{2}$ dozens.

Price .. .. 3/3 each

No. **105** Length, $8\frac{1}{4}$ in. ; Capacity, $\frac{3}{16}$ to $\frac{1}{2}$ in. taps. Price .. 5/– each

Packed in $\frac{1}{4}$ dozens

CHUCK PATTERN TAP HOLDER



SPECIAL SMALL SIZE
for use
with small taps.
Capacity $\frac{1}{8}''$ Taps.

No. 108 .. .. 2/- each

MADE OF STEEL.

ALL WEARING PARTS HARDENED.

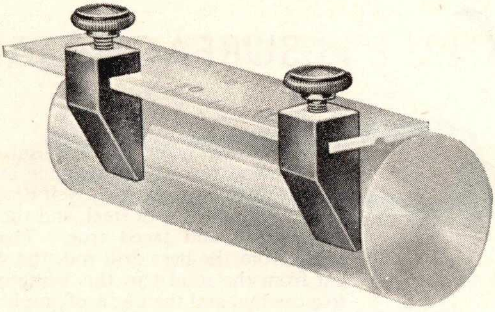
1 on a Card or in Box.

CAPACITY $\frac{7}{32}$ in.

No. 109 .. 2/9 each

Packed singly.

KEY-SEAT CLAMPS



No. 409

These Key-seat Clamps will transform the rule into a key-seat, or box square. They are a good substitute for a more expensive tool and can be fixed to your rule almost instantly.

The illustration shows their use.

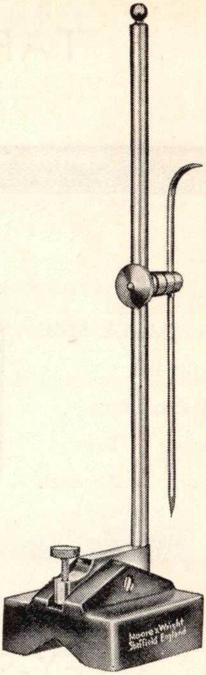
No. 409 .. .. .. Price 3/9 per pair

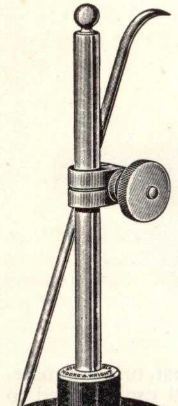
NEW TYPE SURFACE GAUGE

This is a newly-designed Surface Gauge to meet the demand of a gauge at a moderate price. It can be used either on flat or round surfaces and has fine adjustment on a rocking pin. It is heavy and rigid and machined true.

This gauge is offered as a really reliable article at a moderate price.

No. **406**	12″	..	**8**/– each





SURFACE GAUGE

No. **404**

This Surface Gauge has been introduced to fill the demand for a really reliable article at a fair price. It is a handy tool, well proportioned and rigid. The post is of steel, and the base is heavy and turned and faced true. The scribers are made from the best drill rod, the sliding head is cut from the solid bar, this being much superior to a casting, and the nut is of ample size to ensure a firm grip. Packed one in a box.

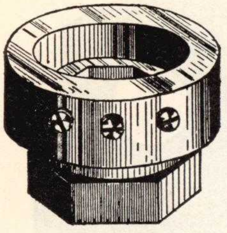
			6	9	ins.
No. **404**	Turned Base	..	**3/9**	**6**/–	each

Packed singly

For **404**/12″ see **406** above.

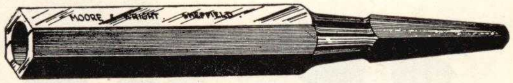
DIE ADAPTOR AND DRIVER

for $\frac{13}{16}$″ diam. dies.



Full Size.

No. 887



Reg. No. 729413

Half Size.

No. 888 **DRIVER.**

Price :

DIE ADAPTOR.
No. 887 1/8 each

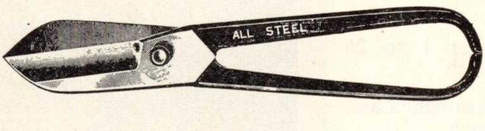
DIE DRIVER.
No. 888 1/- each

This Die Adaptor enables the ordinary round die to be used with a spanner like a Hexagon Die Nut. With the Driver it can be used in a brace. All sorts of awkward places can be reached with it. It turns many "impossible" jobs into child's play.

THIS IS A SURPRISINGLY USEFUL TOOL.

Packed in ¼ dozens

ALL-STEEL TINMEN'S SHEARS



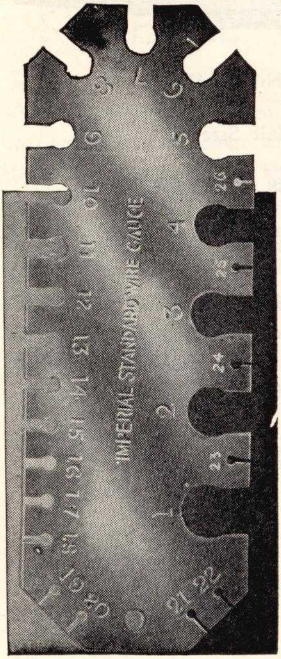
Marked "AVIA"

Made from drop-forged Solid Steel

		6	7	8	9	10	12	inch
No. 295	Straight ..	2/-	2/2	2/6	3/-	3/3	4/-	per pair
No. 296	Bent	2/8	3/-	3/6	4/-	4/9	5/9	„

Packed in ½ dozens

WIRE GAUGES



No. **1057** oblong 1 to 26
5/6 each

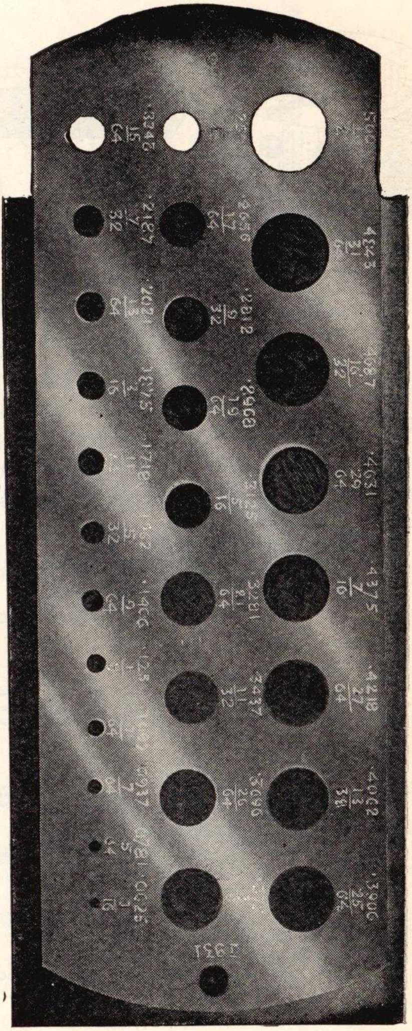
No. **1057C** Leather Case,
6d. each

No. **1058** oblong 1 to 36
8/– each

No. **1058C** Leather Cases
6d. each

All Gauges are guaranteed accurate, the slots being rectified after hardening.

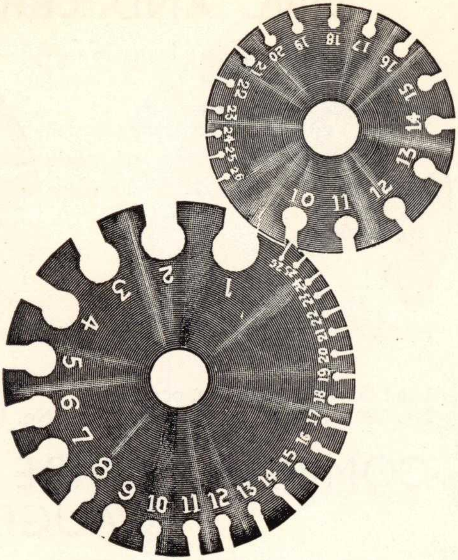
DRILL GAUGE



No. **1059** Jobbers drill gauge from $\frac{1}{16}$ to $\frac{1}{2}$ by 64ths .. **9/–** each

No. **1059C** Leather Case .. **9d.** each

IMPERIAL STANDARD WIRE GAUGES



No. **1050**
Single Circular 10 to 26
4/– each

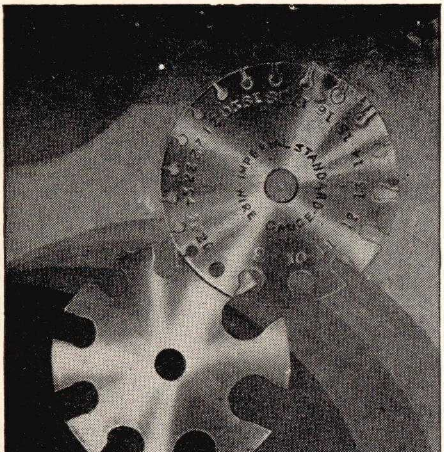
No. **1050**C Leather Case,
3d. each

No. **1051**
Single Circular 1 to 26
5/6 each

No. **1051**C Leather Case,
6d. each

No. **1052**
Single Circular 1 to 36
8/– each

No. **1052**C Leather Cases,
6d. each



All Gauges are guaranteed accurate, the slots being rectified after hardening.

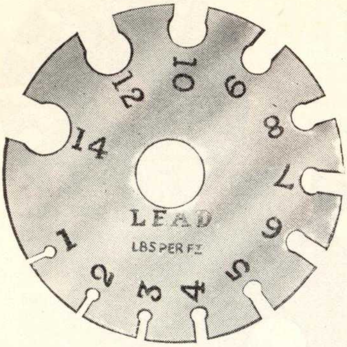
No. **1054**
Double Circular 1 to 26
5/6 each

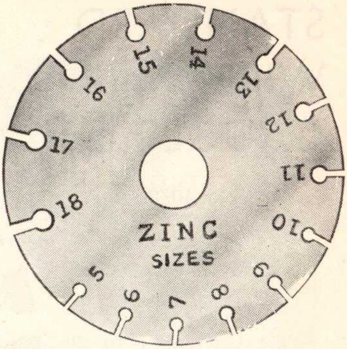
No. **1054**C Leather Case,
6d. each

No. **1055**
Double Circular 1 to 36
8/– each

No. **1055**C Leather Cases,
6d. each

ZINC AND LEAD GAUGES

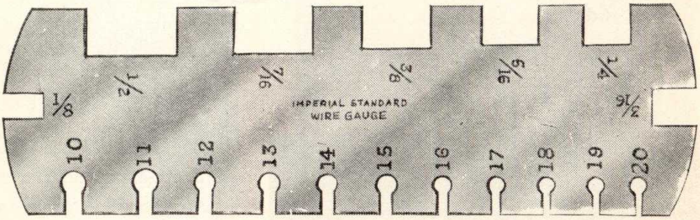




Lead Gauge, 1 to 14 lbs. per foot.
No. **1061** Price .. **3/4** each

Zinc Gauge, 5 to 18 gauge.
No. **1062** Price .. **3/4** each

COMBINED WIRE AND SIZE GAUGE

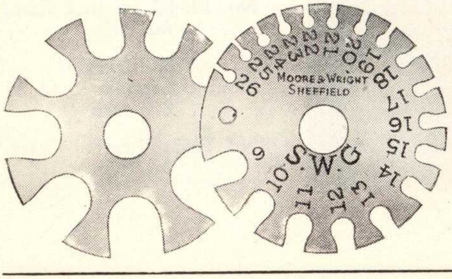


Contains Standard Wire Gauges, 10 to 20, and actual size gauges, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ inch.

No. **1063** Price .. .. .. **3/4** each.

DOUBLE CIRCULAR WIRE GAUGE

Illustration full size.



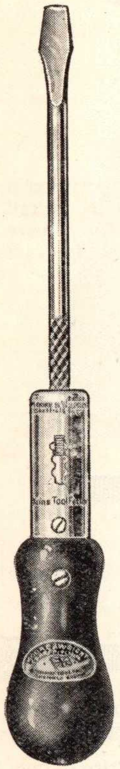
No. **1066**

Double Circular Wire Gauge giving sizes 1 to 26, complete in Leather Case.

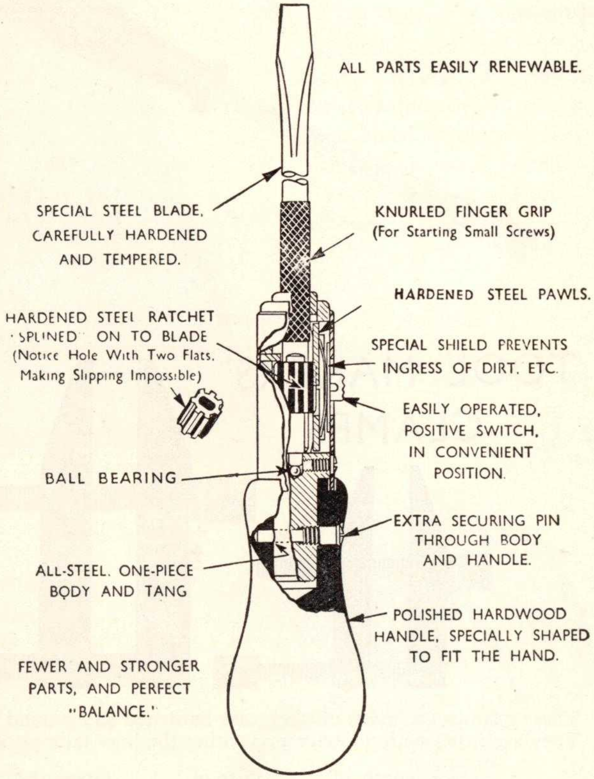
Price .. **5/–** each

BRITISH
RATCHET SCREWDRIVER

This is the Ratchet Screwdriver which we are now supplying to Government Departments, and which has displaced the foreign article.



No. 950


ALL PARTS EASILY RENEWABLE.
SPECIAL STEEL BLADE, CAREFULLY HARDENED AND TEMPERED.
KNURLED FINGER GRIP (For Starting Small Screws)
HARDENED STEEL PAWLS.
HARDENED STEEL RATCHET "SPLINED" ON TO BLADE (Notice Hole With Two Flats, Making Slipping Impossible)
SPECIAL SHIELD PREVENTS INGRESS OF DIRT, ETC.
EASILY OPERATED, POSITIVE SWITCH, IN CONVENIENT POSITION.
BALL BEARING
EXTRA SECURING PIN THROUGH BODY AND HANDLE.
ALL-STEEL, ONE-PIECE BODY AND TANG
POLISHED HARDWOOD HANDLE, SPECIALLY SHAPED TO FIT THE HAND.
FEWER AND STRONGER PARTS, AND PERFECT "BALANCE."

The above section shows the many points of superiority.

PRICES :

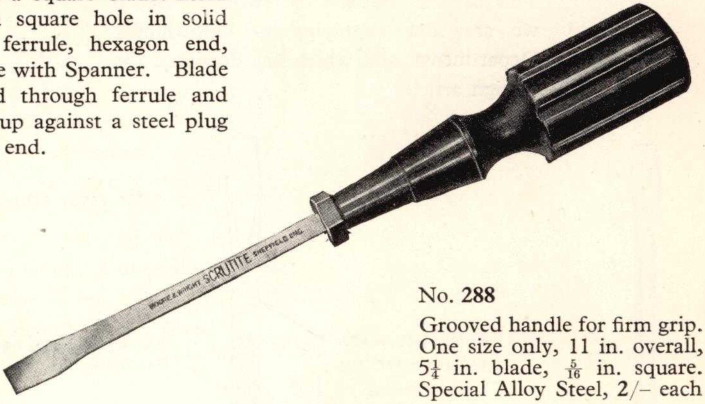
No. 950	2	3	4	5	6 in. blade.
	1/9	1/9	1/9	1/10	2/- each.

Packed in half-dozens

BIG NEW SCREWDRIVER

"SCRUTITE"

This is a Screwdriver of extra robustness and rigidity. It has a square blade, fitted into a square hole in solid Steel ferrule, hexagon end, for use with Spanner. Blade pinned through ferrule and butts up against a steel plug at the end.

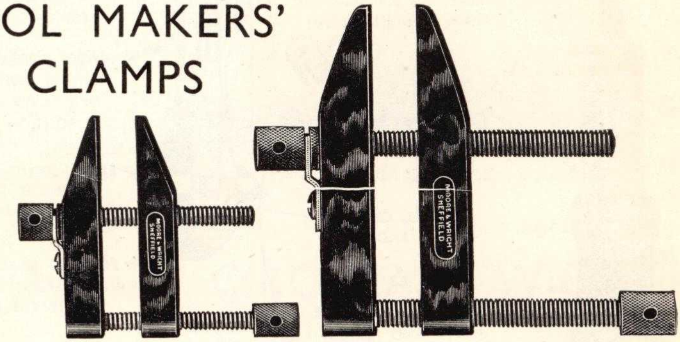

MOORE & WRIGHT SCRUTITE SHEFFIELD ENG.

No. **288**

Grooved handle for firm grip. One size only, 11 in. overall, $5\frac{1}{4}$ in. blade, $\frac{5}{16}$ in. square. Special Alloy Steel, 2/– each

Packed one in a carton

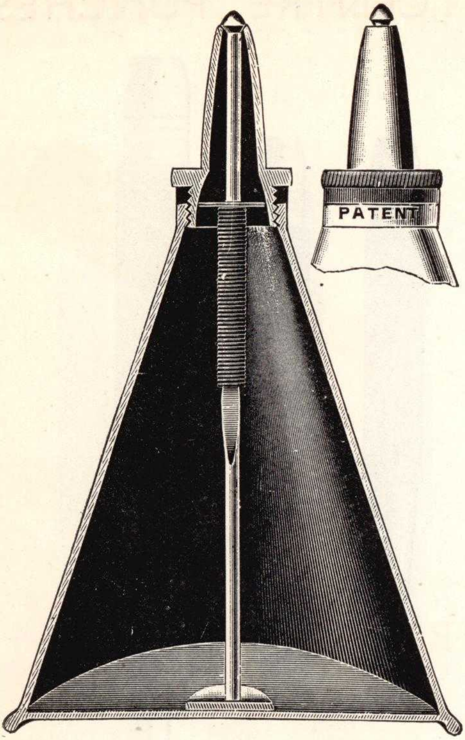
TOOL MAKERS' CLAMPS



These Clamps are made of steel, case hardened and ground flat on the faces. They are fitted with a device preventing the jaws falling together.

	Length of Jaws.	Size of Jaws.	Opening.	Price of one Clamp.
No. **410** ..	2 in.	$\frac{5}{16}$ in. sq.	1 in.	**2/6** each.
No. **411** ..	3 in.	$\frac{7}{16}$ in. ,,	$1\frac{1}{2}$ in.	**3/–** ,,
No. **412** ..	4 in.	$\frac{9}{16}$ in. ,,	$2\frac{1}{2}$ in.	**4/6** ,,
No. **413** ..	5 in.	$\frac{11}{16}$ in. ,,	$3\frac{1}{2}$ in.	**6/9** ,,

N.B.—If a "pair" of clamps is ordered, we send TWO clamps.
Packed one clamp in a box.



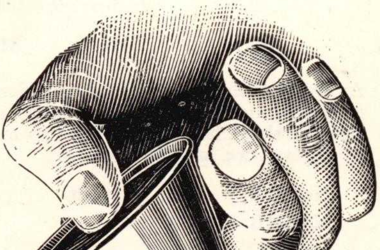
MOORE'S LEAKPROOF OILCAN

(Patent 15893)

This is the only satisfactory Leak-proof Oilcan on the Market. It is quite automatic, and does not need pressing on any object to get the oil out. The body of the can is made from good sound tin, and the bottoms are of brass.

No. **250**
3¼ in. × 2¼ in.
1/- each

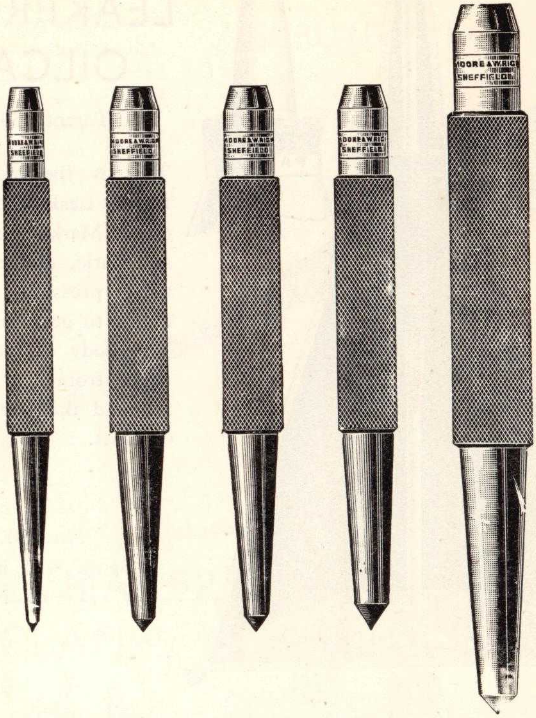
It Saves Oil
It is Clean
It has a Wide Neck
Holes can be oiled
Capacity approx. $\frac{1}{5}$ pint.



No. **253** as No. 250, but without patent attachment.
10d. each.

Packed in 1 dozen and 3 dozen boxes.

CAST STEEL CENTRE PUNCHES



No. 81A 81B 81C 81D 83

As will be seen from the illustrations, these punches have been improved in shape and finish and now stand equal to any make whatsoever. Their size and shape has been dictated by long experience, and we offer them to-day as the best we have ever made.

No. **81A**	$\frac{1}{8}$ in. at point	$\frac{5}{16}$ in. dia. just under	4 in. long.
No. **81B**	$\frac{5}{32}$ in. ,,	$\frac{3}{8}$ in. dia. ,,	4 in. ,,
No. **81C**	$\frac{3}{16}$ in. ,,	$\frac{3}{8}$ in. dia. ,,	4 in. ,,
No. **81D**	$\frac{1}{4}$ in. ,,	$\frac{3}{8}$ in. dia. ,,	4 in. ,,

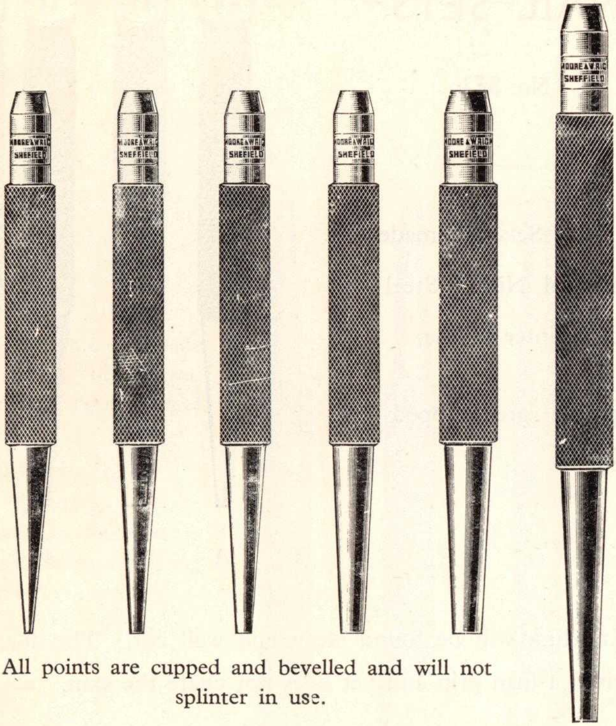
Price .. .. **6d.** each ; **6**/– doz. ; **66**/– per gross.

Packed in 1 dozens

No. **83**	5 in. × $\frac{1}{2}$ in.	**1/1** each ; **12**/– per doz.
No. **85**	6 in. × $\frac{5}{8}$ in.	**1/10** each ; **21**/– ,,
No. **86**	7 in. × $\frac{3}{4}$ in.	**2/1** each ; **24**/– ,,

Packed in $\frac{1}{2}$ dozens

CAST STEEL NAIL SETS



All points are cupped and bevelled and will not splinter in use.

No. 82A 82B 82C 82D 82E 82F

No. 82A	$\frac{1}{16}$ in. at point	.. ..	$\frac{5}{16}$ in. dia., just under 4 in. long.
No. 82B	$\frac{3}{32}$ in.	"	" " "
No. 82C	$\frac{1}{8}$ in.	"	" " "
No. 82D	$\frac{5}{32}$ in.	"	" " "

Price **6d.** each ; **5/6** per doz. ; **63**/– per gross.

No. 82E $\frac{3}{16}$ in. at point, $\frac{3}{8}$ in. dia., **6d.** each ; **69**/– per gross.

No. 82F $\frac{3}{16}$ in. at point, $\frac{3}{8}$ in. dia., 5 in. long, **7½d.** each ; **7/6** dozen.

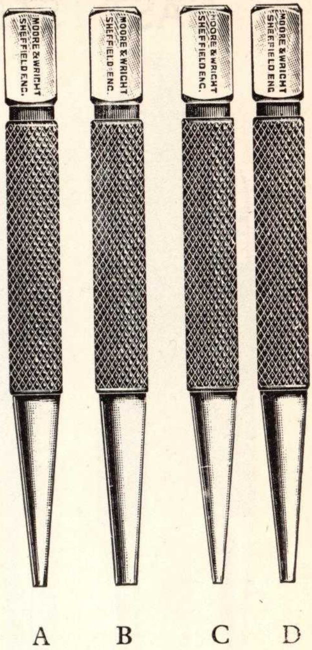
Packed in 1 dozens

SQUARE HEAD NAIL SETS

No. 352

These Nail Sets are made out of a Special Nickel Steel and will not splinter in use.

The points are cupped and bevelled.


MOORE & WRIGHT SHEFFIELD ENG.
MOORE & WRIGHT SHEFFIELD ENG.
MOORE & WRIGHT SHEFFIELD ENG.
MOORE & WRIGHT SHEFFIELD ENG.
A
B
C
D

The Knurling will be found clean and well cut. The diamond form gives a firm grip and yet does not chafe the skin.

They are made in four sizes like our other Nail Sets, viz. :—

	Point.	Body.	Head.	Length.	
352A	$\frac{1}{16}$	$\frac{11}{32}$nd	$\frac{3}{8}$ sqr.	4 in.	Price 6/- doz.
B	$\frac{3}{32}$	”	”	”	6d. each.
C	$\frac{1}{8}$	”	”	”	Gross lots 69/-
D	$\frac{5}{32}$	”	”	”	per gross.

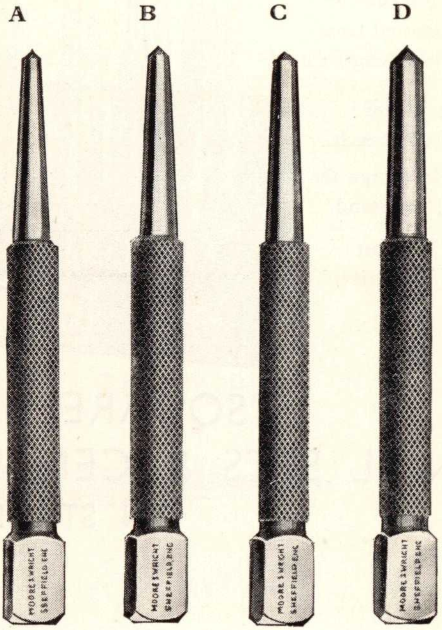
Packed in 1 dozens

SQUARE HEAD CENTRE PUNCHES

No. **351**

These Punches are made from Special Nickel Steel, scientifically hardened and tempered.

The Knurling is clean and well cut and gives a firm grip without chafing the skin.


A
B
C
D
MOORE & WRIGHT SHEFFIELD ENG
MOORE & WRIGHT SHEFFIELD ENG
MOORE & WRIGHT SHEFFIELD ENG
MOORE & WRIGHT SHEFFIELD ENG

Made in four sizes as shown in illustration.

No. **351**

	Point.	Body.	Head.	Length.	Price.
A	$\frac{1}{8}''$	$\frac{11}{32}''$	$\frac{3}{8}''$ square	4″	**6d.** each. **6/-** per doz. **69/-** per gross in gross lots
B	$\frac{5}{32}''$	$\frac{11}{32}''$	$\frac{3}{8}''$,,	4″	
C	$\frac{3}{16}''$	$\frac{11}{32}''$	$\frac{3}{8}''$,,	4″	
D	$\frac{1}{4}''$	$\frac{11}{32}''$	$\frac{3}{8}''$,,	4″	

Packed in 1 dozens

NEW PUNCH STAND

No. **184**

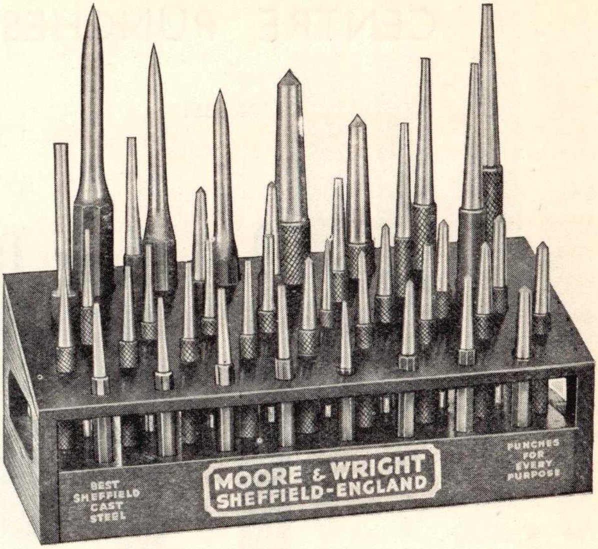
Consisting of 39 Punches of assorted sizes and lengths.

Price :

29/8 each

No charge for the Stand.

Most attractive.


BEST SHEFFIELD CAST STEEL
MOORE & WRIGHT SHEFFIELD-ENGLAND
PUNCHES FOR EVERY PURPOSE

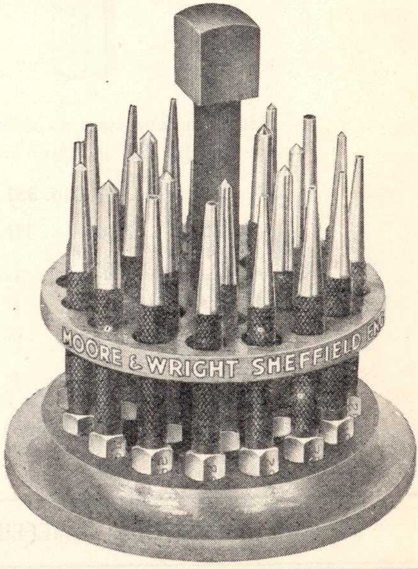
SQUARE HEAD NAIL SETS & CENTRE PUNCHES

ON STAND

No. **186**

This stand contains 2 dozen Square Head Nail Sets and Centre Punches and is given away free with orders of 6 dozen assorted.

Price . . 6/– per dozen punches



"MOORITE" STEEL CENTRE PUNCHES

No. **80** These Punches are made from "Moorite" High Speed Steel, and they will wear as long as a dozen of any other punches made from cast steel. They will keep a fineness of point impossible with ordinary steels—with care will last a lifetime. Every genuine punch is marked "Moorite High Speed Steel." Made in same sizes as No. 81.

Price .. **1/-** each

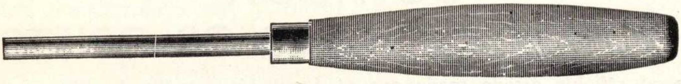
Packed in 1 dozens

PRICK PUNCH

No. **79** $\frac{9}{32}$ in. diameter, $\frac{3}{32}$ in. at point, just under 4 in. long .. **6d.** each

Packed in 1 dozens

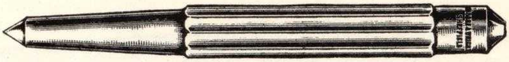
SCRAPER SHARPENERS



No. **290** Joiners, round blade .. .. Price **10d.** each

Packed in $\frac{1}{2}$ dozens

OCTAGON
CAST STEEL CENTRE PUNCHES



Description and sizes same as 81.

No. **261** The Punches shown herewith are made out of steel specially made to withstand shock. They are nicely machined, oil tempered, and the quality of the steel is brought out as well as skill in hardening and tempering can do it.

Size A. $\frac{5}{16}$ in. diameter. B, C and D $\frac{3}{8}$ in. diameter.

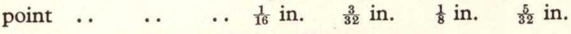
	A	B	C	D	
Size at point	$\frac{1}{8}$ in.	$\frac{5}{32}$ in.	$\frac{3}{16}$ in.	$\frac{1}{4}$ in.	**5½d.** each

5/6 per dozen, **63/-** per gross.

No. **262** ½ in. diameter, 5 in. long .. .. **8½d.** each

Packed in 1 dozens

OCTAGON
CAST STEEL NAIL SETS



Description and sizes same as 82.

No. **272** These Nail Sets are made of the same grade of steel as the Centre Punches shown above, oil hardened, points concave, and all of a very handy size.

All sizes $\frac{5}{16}$ in. diameter.

	A	B	C	D	
Size at point	$\frac{1}{16}$ in.	$\frac{3}{32}$ in.	$\frac{1}{8}$ in.	$\frac{5}{32}$ in.	**5½d.** each

5/6 per dozen, **63/-** per gross

Packed in 1 dozens

OCTAGON
MOTOR PUNCHES OR DRIFTS

A good reliable article made out of Sheffield Cast Steel. Thoroughly guaranteed.

No. **263**	$\frac{3}{8}$ in. dia., 6 ins. long	Price **8½d.**	each
No. **264**	½ in. dia., 7 ins. long	„ **11d.**	„

Packed in ½ dozens

PARALLEL PIN PUNCHES

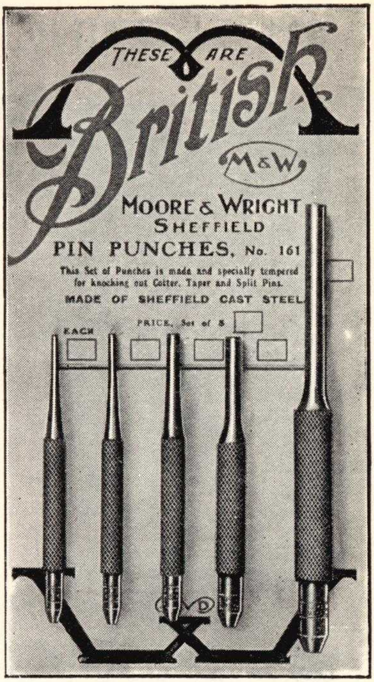
No. **161**

Approx. Length.			ins.		
4 ins.	AA	Size	$\frac{9}{32} \times \frac{1}{16}$	**7½d.**	each
4 ins.	A	,,	$\frac{9}{32} \times \frac{3}{32}$	**7½d.**	,,
4 ins.	B	,,	$\frac{9}{32} \times \frac{1}{8}$	**6d.**	,,
4 ins.	C	,,	$\frac{5}{16} \times \frac{3}{16}$	**6d.**	,,
4 ins.	D	,,	$\frac{3}{8} \times \frac{1}{4}$	**6d.**	,,
6 ins.	E	,,	$\frac{1}{2} \times \frac{5}{16}$	**1/4**	,,

No. **161F**, Set of 5, $\frac{3}{32}$ to $\frac{5}{16}$	..	**3/6**
No. **161G**, Set of 5, $\frac{1}{16}$ to $\frac{1}{4}$	..	**2/9**

On Card as shown.

Packed AA, A, B, C, D, in dozens.
E in ½ dozens


THESE ARE
British
M&W
MOORE & WRIGHT
SHEFFIELD
PIN PUNCHES. No. 161
This Set of Punches is made and specially tempered for knocking out Cotter, Taper and Split Pins.
MADE OF SHEFFIELD CAST STEEL
PRICE, Set of 5
EACH

MOTOR PUNCHES

No. 87

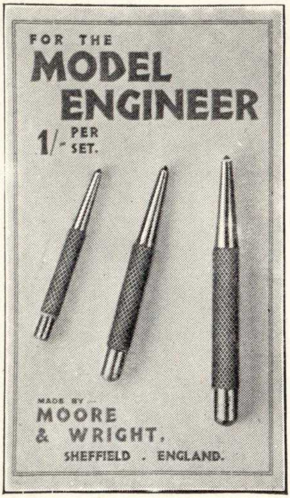
No. 88

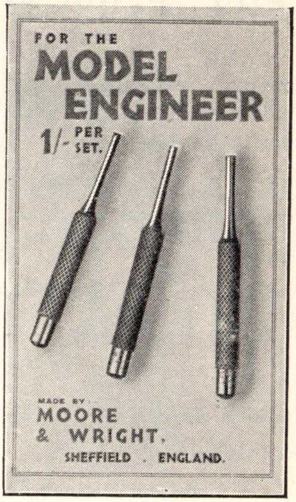
These Punches have been introduced to meet the growing demand for a reliable article for knocking out taper pins, etc. They are made of cast steel, are nicely knurled in the middle for a grip, are hardened both ends, and the size will be found very handy.

No. **87**	Size, 6 ins. long, ⅜ in. diameter	**11d.**	each
No. **88**	Size, 7 ins. long, ½ in. diameter	**1/1**	,,
No. **188**	Size, 8 ins. long, ⅝ in. diameter	**1/6**	,,

Packed in ½ dozens

SMALL PUNCHES for Model Makers





No. 265

Set of 3 Centre Punches .. 1/– per Set

1 each ..	A	B	C	
	$2\frac{1}{4}''$	$2\frac{3}{4}''$	$3\frac{3}{8}''$	long
	$\frac{5}{64}''$	$\frac{1}{8}''$	$\frac{9}{64}''$	at point
	$\frac{3}{16}''$	$\frac{1}{4}''$	$\frac{5}{16}''$	dia.

No. 266

Set of 3 Pin Punches .. 1/– per Set

1 each ..	A	B	C	
	$2\frac{1}{4}''$	$2\frac{3}{8}''$	$2\frac{1}{2}''$	long
	$\frac{1}{16}''$	$\frac{5}{64}''$	$\frac{3}{32}''$	at point
	$\frac{3}{16}''$	$\frac{3}{16}''$	$\frac{3}{16}''$	dia.

No. 267

Set of 3, larger .. 1/– per Set

1 each ..	A	B	C	
	$2\frac{3}{4}''$	$2\frac{7}{8}''$	$3''$	long
	$\frac{3}{32}''$	$\frac{7}{64}''$	$\frac{1}{8}''$	at point
	$\frac{1}{4}''$	$\frac{1}{4}''$	$\frac{1}{4}''$	dia.

NEW CARBON SCRAPER

For Motor Cycles

No. 90

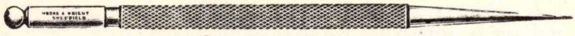
This is a new design of Carbon Scraper designed to be used with a Pull-cut. To use, pull the piston to top dead centre, insert Scraper through spark plug hole, using round end of Scraper first to loosen carbon and finish off with flat end. A most useful tool made from best Chrome Vanadium Alloy Steel, which ensures a lasting cutting edge.

No. 90	10 ins. long, one size only	1/– each

Packed in ½ dozens

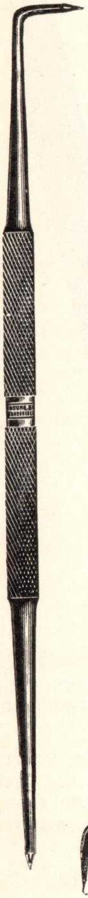
No. 90x	Card containing six	6/– per card

MACHINIST'S SCRIBER



Made out of high grade tool steel, properly tempered, knurled and finished. Being knurled right down it ensures a firm hold.

No. 72 Size, 4½ ins. long, $\frac{3}{16}$ in. diameter .. .. .. **6d.** each



Improved Engineer's Scriber

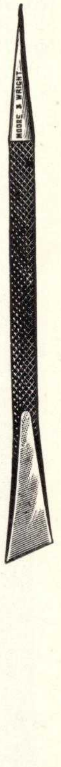
As will be seen from the cut this is a much improved tool, as it affords a firm hold just where needed.

No. **75** Length, 7 ins.
8/6 per doz. ; **9d.** each

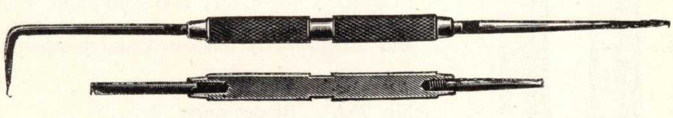
Improved Joiner's Striking Knife

This Striking Knife meets the demand for a good tool which can be more securely held in the hand than the usual pattern. It is knurled all the way down, and is a useful tool in every way.

No. **74** Length, 7 ins.,
8/6 per doz. ; **9d.** each



Double Ended Scriber



No. **77** A superior article, length 7 ins., **11/6** per dozen, **1/–** each.

All above packed in dozens

POCKET SCRIBER

No. **70**

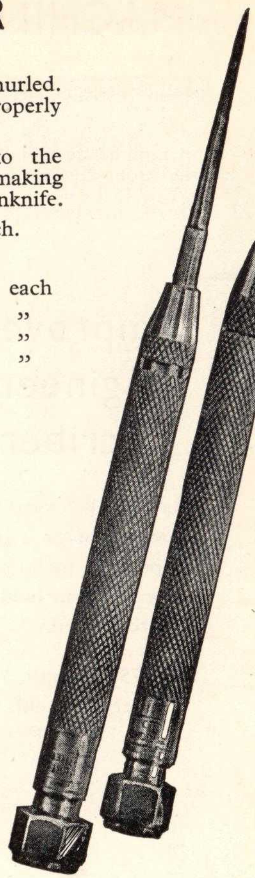
This Tool is made from steel tubing, knurled. The Scriber is made from best quality steel, properly tempered, and is held by a knurled chuck.

The Scriber is reversible, telescoping into the handle, and is held by a turn of the chuck, making it quite as safe to carry in the pocket as a penknife.

The hexagon prevents it rolling off the bench.

Indispensable to every mechanic.

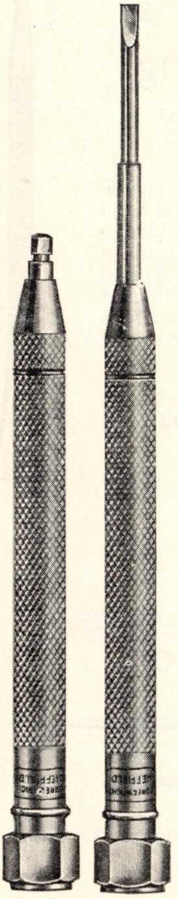
No. **70**	Size as illustration	.. ..	**1/–**	each
No. **70A**	Scribers only	.. ..	**2d.**	,,
No. **700**	Size 4$\frac{3}{8}$″ closed	.. ..	**2/–**	,,
No. **700A**	Blades for 700	.. ..	**4d.**	,,



No. 70. Actual size

POCKET SCREW DRIVER

No. **76**



No. 76. Actual size

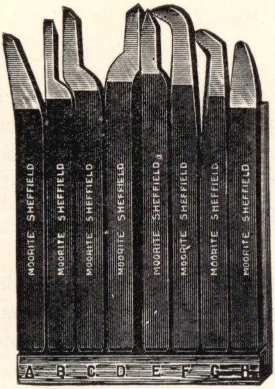
This Tool is made from steel tubing, knurled. The butt of the blade fits a solid lock in the tube, which prevents it from turning. It is held from coming out by a slight turn of the chuck.

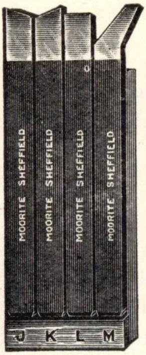
To carry in the pocket, reverse the blade, insert it in the handle, and give a slight turn of the chuck to keep it there. It takes no more room than a penknife. The blades are made of best cast steel, and are properly hardened and tempered.

No. **76**	Size as illustration	..	**1/–**	each
No. **76A**	Blades only	.. ..	**2d.**	,,
No. **760**	Size 4$\frac{3}{8}$ in., closed	..	**2/–**	,,
No. **760A**	Blades only	.. ..	**4d.**	,,

LATHE TOOLS

Sets of any number of Tools, or Tools of any other shapes can be supplied.





Sold either in sets of Eight or Twelve, or singly.

All shapes shown the same price.

Special shapes at special prices.

CAST STEEL

No.	Square	Length	Set of Eight	Set of Twelve	Each
430	$\frac{1}{4}$ in.	3 in.	**4/4**	**6/6**	**$7\frac{1}{2}$d.**
431	$\frac{5}{16}$ in.	4 in.	**7/-**	**10/6**	**1/-**
432	$\frac{3}{8}$ in.	4 in.	**8/-**	**12/-**	**1/1**
433	$\frac{7}{16}$ in.	$4\frac{1}{4}$ in.	**9/9**	**14/6**	**1/3**
434	$\frac{1}{2}$ in.	$4\frac{1}{2}$ in.	**13/-**	**19/6**	**1/8**
435	$\frac{9}{16}$ in.	5 in.	**18/4**	**27/6**	**2/5**
436	$\frac{5}{8}$ in.	5 in.	**21/6**	**32/3**	**2/9**
437	$\frac{3}{4}$ in.	6 in.	**28/-**	**42/-**	**3/6**
438	1 in.	7 in.	**62/6**	**93/6**	**8/-**

HIGH SPEED STEEL

No.	Square.	Length.	Set of Eight.	Set of Twelve	Each
440	$\frac{1}{4}$ in.	3 in.	**8/-**	**12/-**	**1/1**
441	$\frac{5}{16}$ in.	4 in.	**12/-**	**18/-**	**1/6**
442	$\frac{3}{8}$ in.	4 in.	**15/-**	**22/6**	**2/-**
443	$\frac{7}{16}$ in.	$4\frac{1}{4}$ in.	**18/4**	**27/6**	**2/4**
444	$\frac{1}{2}$ in.	$4\frac{1}{2}$ in.	**21/6**	**32/3**	**3/-**
445	$\frac{9}{16}$ in.	5 in.	**31/3**	**46/9**	**4/-**
446	$\frac{5}{8}$ in.	5 in.	**41/-**	**61/-**	**5/5**
447	$\frac{3}{4}$ in.	6 in.	**56/-**	**84/-**	**7/3**
448	1 in.	7 in.	**118/-**	**177/-**	**15/-**

A HANDSOME STAND in OAK with Gilt Lettering to hold 1 Set No. 430 is given away with an Order for Six Sets. STANDS ONLY, 2/- each

MOTOR BEARING SCRAPERS

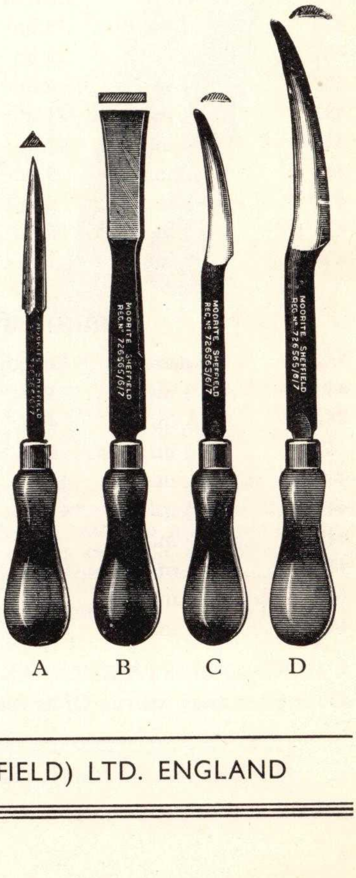
REGD. NOS. 726565/6/7

These Scrapers are the handiest and most convenient to use that have ever been made. The steel is the finest Sheffield manufacture, and the most skilled labour available is employed in their production. Every detail has been studied, even down to the shape and size of the handles, which are shaped to fit the hand perfectly.

The crank on the half-rounds enables them to be used with ease in any position, and all corners which come into contact with the hand have been rounded off. The half-round and three-square blades are hollow-ground to ensure a keen but firm edge. They carry our usual guarantee and will be found durable and delightful in use.

156A	Three-square	4″	blade	1/4	each
156B	Flat	4″	,,	1/4	,,
156C	Half-round Curved	4″	,,	1/4	,,
156D	,, ,,	5″	,,	1/8	,,
156	The Set of Four			5/8	
156X	,, ,, On card			5/8	card
157A	Three-square	5½″	blade	1/8	each
157B	Flat	6″	,,	1/8	,,
157C	Half-round Curved	6″	,,	2/-	,,
157D	,, ,,	8″	,,	2/3	,,
157	The Set of Four			7/6	
157X	,, ,, on card			7/6	card

Packed in ¼ dozens and in Sets.


MOORITE SHEFFIELD REG. Nº 726565/6/7
MOORITE SHEFFIELD REG. Nº 726565/6/7
MOORITE SHEFFIELD REG. Nº 726565/6/7
MOORITE SHEFFIELD REG. Nº 726565/6/7
A
B
C
D

WOOD HANDLED ENGINEERS' SCRAPERS

No. 96A	Three-square 4 in. blade	1/1	each
No. 96B	Flat 4 in. blade ..	1/1	,,
No. 96C	Curved 4 in. blade ..	1/1	,,
No. 96D	Curved 5 in. blade ..	1/4	,,

No. 96 4/6 per set of Four.

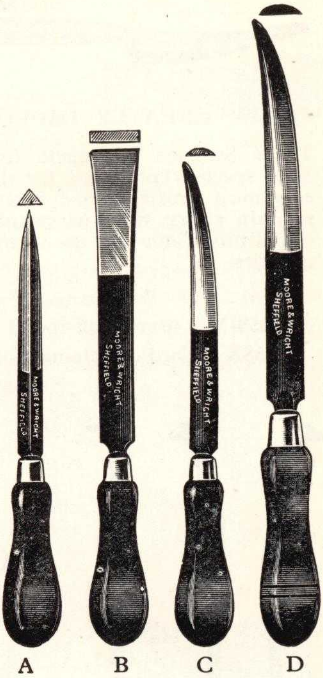
No. 97A	Three-square 5½ in. blade	1/4	each
No. 97B	Flat 6 in. blade ..	1/4	,,
No. 97C	Curved 6 in. blade ..	1/4	,,
No. 97D	Curved 8 in. blade ..	2/–	,,

No. 97 6/– per set of Four.

No. 98 Set of 4 half-round curved, from 4 to 8 in. .. 5/9 per Set

No. 95 Set of 3 { three-square, flat, half-round } 4 in

Price .. 3/3



Prices of Larger Scrapers

8 in. BLADE.

No. 99A	Three-square ..	2/–	each
No. 99B	Flat	1/9	,,
No. 97D	Curved half-round	2/–	,,

10 in. BLADE.

No. 100A	Three-square ..	2/9	each
No. 100B	Flat	2/3	,,
No. 100D	Curved half-round	2/9	,,

12 in. BLADE.

No. 101A	Three-square ..	3/3	each
No. 101B	Flat	2/9	,,
No. 101D	Curved half-round	3/3	,,

SCRAPERS

Mounted on Card

		Each
No. 96x	Set of 4 as shown, three 4 in., one 5 in., on attractive card	4/6
No. 97x	Set of 4 ditto, one 5½ in., two 6 in., one 8 in., on attractive card	6/–
No. 98x	Set of 4 half-round, curved, from 4 in. to 8 in., on card ..	5/9
No. 95x	Set of three 4 in., three square, flat, and half-round, on card	3/3

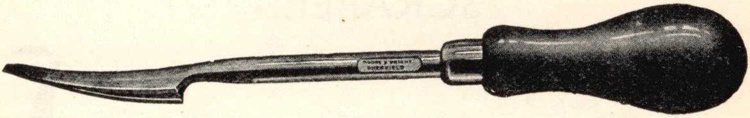
All the above have Best Quality Polished Red Handles.

OUR Scrapers are all forged from NEW Cast Steel Bar, and we request you to **BEWARE of SCRAPERS made out of OLD FILES**

Packed in ½ dozens and in Sets

THE "MOORITE" SCRAPER

No. 258D

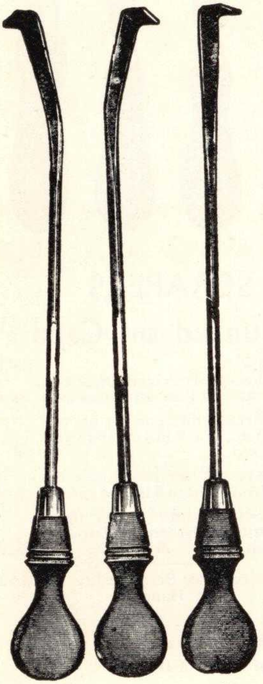


NOW GREATLY IMPROVED AND MADE 1 in. LONGER

These Scrapers are made from a Special Tungsten-Vanadium Alloy Steel specially produced for the purpose of Scrapers where the cutting edge must remain sharp for long periods. **The edge on these tools will remain sharp without grinding for years.** Without exaggeration we confidently claim that no Scrapers have ever been produced having equal qualities.

		4 in.	6 in.	8 in. blade
No. 258D	Curved Half-round	1/-	1/8	2/2 each
,, 258X	Card containing 1 of each size	..	..	4/9 per card

Packed in ¼ dozens



CARBON SCRAPERS OR PISTON HEAD SCRAPERS

The Scrapers are a high grade Tool at a reasonable price. The blades are made from finest quality Silver Steel Rod and are guaranteed to hold a good scraping edge.

The shanks are left springy.

The blades are fitted with oval handles, making them easy to use, as they will not readily turn or slip in the hand during use.

They are made in three shapes, i.e., straight, left-hand bend and right-hand bend as detailed below.

No. 94A	Straight Blade	1/4 each
No. 94B	Left-hand bend	
No. 94C	Right-hand bend	

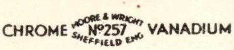
No. 94

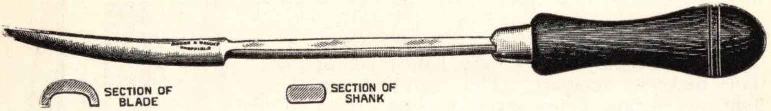
Set of three Scrapers .. .. 4/- Set

Packed in ¼ dozens and in sets

THE "ERECTORS" SCRAPER

See this mark on each Scraper





No. 257 (replacing No. 259 now abandoned)

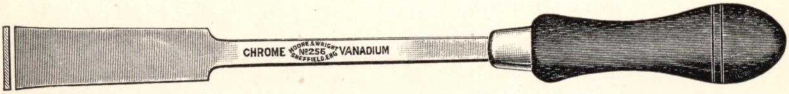
This Scraper is the result of many years experience in making high quality Scrapers and embodies all those delicate refinements which are appreciated by the skilled craftsman. It will cut without chatter and remove that last half-thou. with artistic ease.

The flat section of the shank has the edges rounded and gives a pleasant grip for the side movement. The Steel is the World's best, being made in Sheffield, and our guarantee goes with every Tool.

Each Scraper is honed and sent out ready for use.

No. 257 $4\frac{3}{8}$ in. blade, $5\frac{1}{2}$ in. shank, $5\frac{1}{8}$ in. handle, 15 in. overall

Price 3/9 each

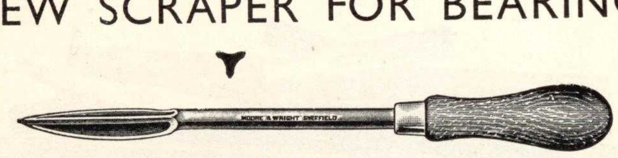


No. 256 Same quality as No. 257 above, but flat, as shown.

$3\frac{1}{2}''$ blade, $4\frac{3}{4}''$ shank, $5''$ handle, $13\frac{1}{4}''$ overall.

Price 3/3 each

NEW SCRAPER FOR BEARINGS

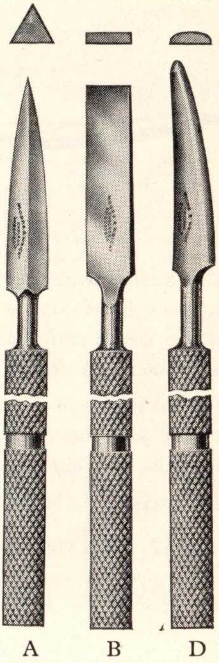


Forged out of solid bar, this Scraper has three cutting edges. It is forged hollow, and is easily sharpened.

No. 533 .. .. Price 1/9 each

TUBE HANDLED SCRAPERS

A Triangular, hollow ground on sides.
B Flat scraper for surface work.
D Curved half-round for use in bearings, etc.



The illustrations show a very handy set of tool makers' scrapers. The handles are light and strong, being made of solid drawn steel tubing knurled for a grip. The blades are made from best cast steel ground after hardening. The shapes are flat, three-square and half-round curved.

Set No. **91** are tool makers' scrapers and will be found useful for all light accurate work.

Set Nos. **92** and **93** are larger, and are suitable for engineers and particularly for motor car work.

				Per Set of 3 wrapped
No. **91**	6 in.,	any shape	**1/9** each	**5/3**
No. **92**	10 in.	„	**2/3** „	**6/9**
No. **93**	12 in.	„	**2/9** „	**8/3**

If in wooden boxes the price is **1/3** per Set extra, see below.

Packed in ¼ dozens and in sets

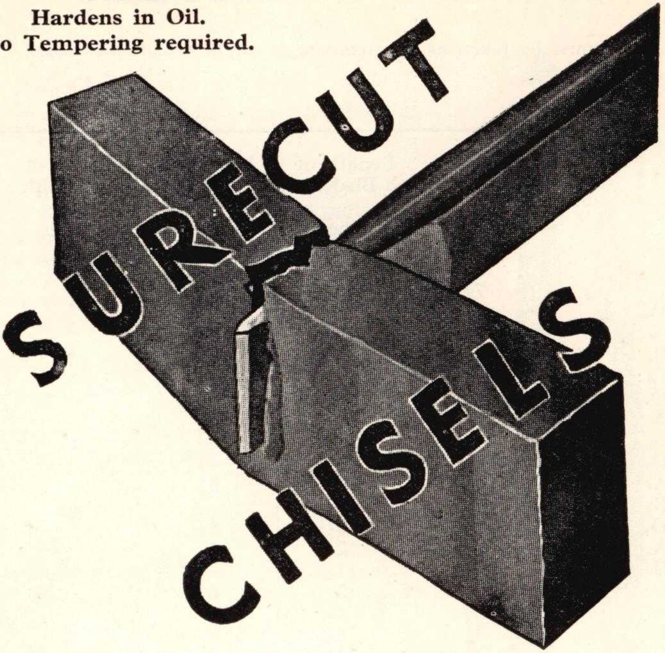
No. **91X**	Set of three 6″ in wooden box, as illustrated	..	**6/6** per set.
No. **92X**	„ 10″ „ „	..	**8/–** „
No. **93X**	„ 12″ „ „	..	**9/6** „

DIMENSIONS OF SCRAPERS

The sizes must be taken as approximate as slight variations occur.

	Overall length.	Length of Blade.	Length of Cutting Edge.	Width of Cutting Edge.
	inches.	inches.	inches.	inches.
96 A.	8	4½	2¼	
B.	8¼	4¼	—	9/16
C.	7½	4	1¾	
D.	8¾	5	2	
97 A.	10	5¾	3	
B.	10¾	6¼	—	13/16
C.	10½	6	3¼	
D.	14	8¼	4¼	
99 A.	13½	8¼	4¼	
B.	13	7½	—	1
D.	14	8¼	4¼	
100 A.	16	10¾	5½	
B.	15½	10	—	1¼
D.	15½	10½	5½	
101 A.	17½	12	6	
B.	17¼	11½	—	1⅜
D.	18½	12	6	
156 A.	8½	4½	2	
B.	8¼	4¼	—	9/16
C.	7¾	4¼	2	
D.	9	5¼	2¼	
157 A.	10	5¾	3	
B.	10¾	6¼	—	13/16
C.	10¼	6¼	3	
D.	13¾	8¼	4½	
533	10¾	6¾	2¾	
94 A.B.D.	10½	7¼	—	7/16
91 A.	7⅜	2⅞	1⅞	
B.	7	2 9/16	—	⅜
D.	7⅜	2⅞	1⅞	
92 A.	9⅝	4⅛	3	
B.	9⅝	4⅛	—	11/16
D.	10	4½	3⅜	
93 A.	11¾	4¾	3⅝	
B.	11⅝	4⅝	—	⅞
D.	12	5	3⅞	
257	15	9⅞	4⅜	
258 D. 4 in.	7¼	4	1½	
6 in.	9½	6	2	
8 in.	11½	8	2¼	
256	13¼	3½	—	1⅛

NICKEL-CHROME ALLOY STEEL
Hardens in Oil.
No Tempering required.



These Chisels are made from a new non-tempering Nickel-Chrome Alloy Steel. Pearlite Plated. Smart Appearance.

They can be re-sharpened with a file but are so tough that they will do the hardest work.

The flat section gives a firm grip, and they will not splinter under severe service.

	Size of Stock.	Width of Cut.	Length.	
No. 319	¼″ × 5/32″	5/16″	4″	**7½d.** each
No. 320	5/16″ × 3/16″	⅜″	4⅜″	**8½d.** „
No. 321	⅜″ × 7/32″	7/16″	5¼″	**10d.** „
No. 322	½″ × 5/16″	⅝″	6″	**11d.** „
No. 323	⅝″ × 7/16″	¾″	7″	**1/3** „
No. 324	¾″ × ½″	⅞″	8″	**1/10** „
No. 325	⅞″ × 9/16″	1″	9″	**2/5** „
No. 326	1″ × ⅝″	1⅛″	9½″	**3/-** „

Cross-cut Chisels can be supplied in Nos. 321, 322, 323, 324 at **2d.** each extra.

These Chisels combine the qualities of being sure-cutting and splinterless, and may be sharpened with a smooth file. They work with speed and without fuss, and improve with work.

" SURECUT " CHISELS

British made
throughout

IN A FEW YEARS THESE CHISELS HAVE BECOME FAMOUS THROUGHOUT THE WORLD.

Forging and Hardening Instructions for "SURE-CUT" CHISELS

TO HARDEN—

Heat to 830° C. (Bright Cherry Red) and quench in Oil.

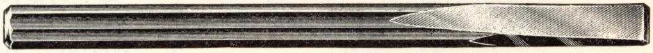
FORGE at same heat.

It is very important that the above Temperature be adhered to. It neither forges nor hardens well at lower or higher Temperatures.

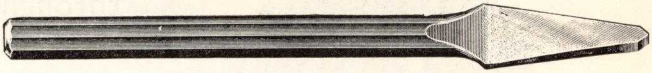
MOORE & WRIGHT (SHEFFIELD) LTD. ENGLAND ●

OCTAGON CAST STEEL CHISELS

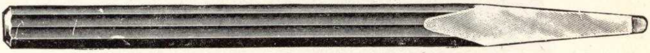
A
Flat



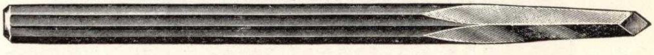
B
Cross
Cut



C
Half-round



D
Diamond



Made from Sheffield **First Quality Cast Steel,** forged and hardened by skilled labour, and guaranteed in every way.

	Diameter.	Length.	Cut of Flat Chisels.	Price.	
No. 229	$\frac{1}{4}$ in. ..	4 in. ..	$\frac{5}{16}$ in. ..	**4d.** each	
No. 230	$\frac{5}{16}$ in. ..	$4\frac{1}{2}$ in. ..	$\frac{3}{8}$ in. ..	**$4\frac{1}{2}$d.** „	All Shapes
No. 231	$\frac{3}{8}$ in. ..	$5\frac{1}{2}$ in. ..	$\frac{7}{16}$ in. ..	**$5\frac{1}{2}$d.** „	the same
No. 232	$\frac{1}{2}$ in. ..	6 in. ..	$\frac{9}{16}$ in. ..	**6d.** „	price to
No. 233	$\frac{5}{8}$ in. ..	7 in. ..	$\frac{3}{4}$ in. ..	**8d.** „	$\frac{1}{2}$ inch,
No. 234	$\frac{3}{4}$ in. ..	8 in. ..	$\frac{7}{8}$ in. ..	**10d.** „	above $\frac{1}{2}$ in.
No. 235	$\frac{7}{8}$ in. ..	9 in. ..	1 in. ..	**1/1** „	B. C. & D. shapes
No. 236	1 in. ..	$9\frac{1}{2}$ in. ..	$1\frac{1}{8}$ in. ..	**1/5** „	10% extra.

OTHER SIZES AND LENGTHS

Price Each

Dia.	4	5	6	8	10	12	15	18	24″ long
$\frac{1}{4}$″ ..	—	—	**5d.**	—	—	—	—	—	—
$\frac{5}{16}$″ ..	—	—	—	—	—	—	—	—	—
$\frac{3}{8}$″ ..	**5d.**	—	**$5\frac{1}{2}$d.**	**$6\frac{1}{2}$d.**	—	—	—	—	—
$\frac{1}{2}$″ ..	**$5\frac{1}{2}$d.**	**6d.**	**6d.**	**7d.**	**9d.**	**10d.**	**1/–**	**1/3**	—
$\frac{5}{8}$″ ..	—	—	—	**9d.**	**11d.**	**1/–**	**1/2**	**1/5**	**1/10**
$\frac{3}{4}$″ ..	—	—	—	**10d.**	**1/1**	**1/4**	**1/7**	**1/8**	**2/–**
$\frac{7}{8}$″ ..	—	—	—	**1/1**	**1/5**	**1/8**	**1/10**	**2/–**	**2/6**
1″ ..	—	—	—	**1/5**	**1/8**	**1/10**	**2/2**	**2/4**	**2/9**

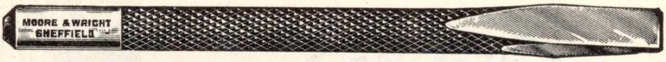
The above Prices are only for Shape A, i.e., Flat.
Shapes B, C and D 10 per cent. extra.

Up to $\frac{1}{2}$ in. diameter packed in $\frac{1}{2}$ dozens; above in $\frac{1}{4}$ dozens.

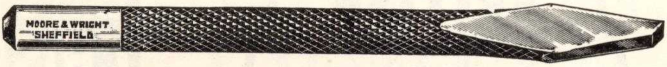
Any departure from Standard sizes, 25 per cent. extra.

COLD CHISELS FOR MODEL MAKERS AND ENGINEERS

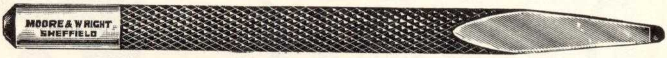
A
Flat



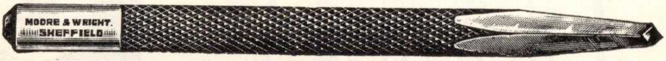
B
Cross
Cut



C
Half-
round



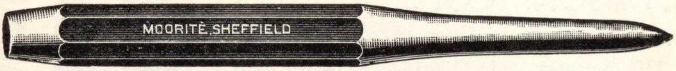
D
Dia-
mond



The Chisels shown above are made of best forged steel ; they are hardened and tempered at both ends ; are nicely knurled in the middle for a grip ; will be found much better to use and a great improvement on the ordinary plain article.

No 219	¼ in. diameter,	4 in. long,	any shape shown above	4d. each
No. 220	5/16 in. ,,	4½ in ,,	,, ,, ...	4½d. ,,
No. 221	⅜ in. ,,	5¾ in. ,,	,, ,, ...	5½d. ,,
No. 222	½ in. ,,	6 in. ,,	,, ,, ...	6d. ,,
No. 223	⅝ in. ,,	7 in. ,,	,, ,, ...	8d. ,

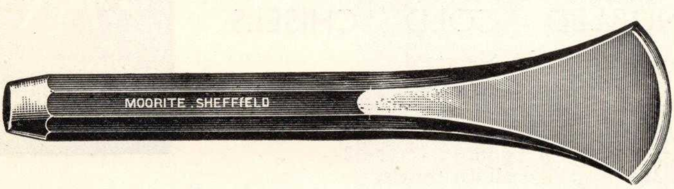
PUNCHES FOR CORRUGATED IRON



No. 245	½ in. dia.	7 in. long	¼ in. pin ..	7d. each
No. 246	⅝ in. dia.	7 in. long	5/16 in. pin ..	11d. ,,
No. 247	¾ in. dia.	7½ in. long	7/16 in. pin ..	1/1 ,,

Forged from Sheffield Cast Steel

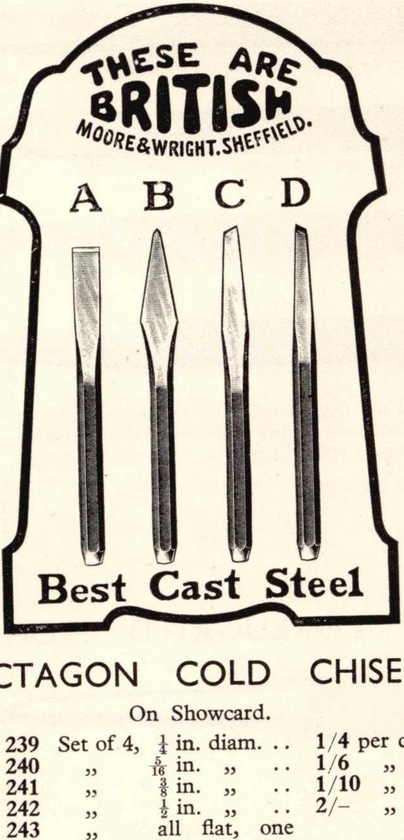
CHISELS FOR CORRUGATED IRON



No. 248	¾ in. dia.	8 in. long	1/4 each

Forged from Sheffield Cast Steel.

THE FAMOUS LINE of CARDED CHISELS



See Page 144.

OCTAGON COLD CHISELS

On Showcard.

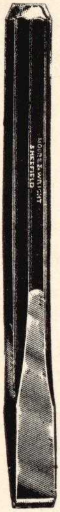
No. 239	Set of 4, $\frac{1}{4}$ in. diam. ..	1/4	per card
No. 240	" $\frac{5}{16}$ in. " ..	1/6	"
No. 241	" $\frac{3}{8}$ in. " ..	1/10	"
No. 242	" $\frac{1}{2}$ in. " ..	2/-	"
No. 243	" all flat, one each, $\frac{1}{4}$ in., $\frac{5}{16}$ in., $\frac{3}{8}$ in., $\frac{1}{2}$ in. diam.	1/8	"

KNURLED COLD CHISELS

On Showcard.

No. 209	Set of 4, $\frac{1}{4}$ in. diam. ..	1/4	per card
No. 210	" $\frac{5}{16}$ in. " ..	1/6	"
No. 211	" $\frac{3}{8}$ in. " ..	1/10	"
No. 212	" $\frac{1}{2}$ in. " ..	2/-	"
No. 213	" all flat chisels, one each $\frac{1}{4}$ in., $\frac{5}{16}$ in., $\frac{3}{8}$ in., $\frac{1}{2}$ in. diam. ..	1/8	"

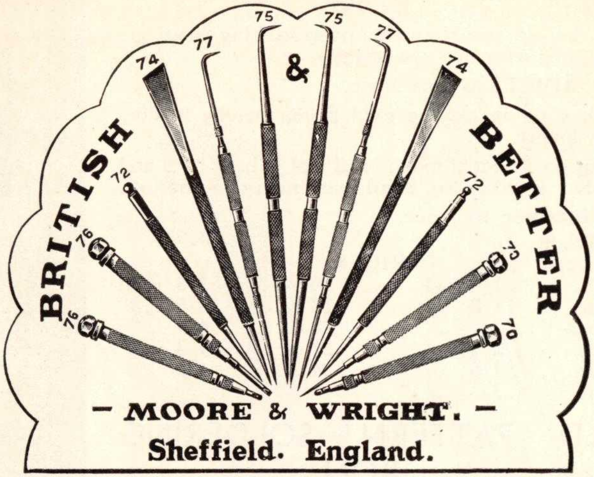
TILE CHISELS



No. 214
Assorted $\frac{5}{16}$ in. and
$\frac{3}{8}$ in. diam.
$4\frac{1}{2}$d. each.
Packed in $\frac{1}{2}$ dozens

SCRIBERS ON CARD

ASSORTED



1 dozen Assorted Scribers, as shown.
No. 78 .. .. 10/– per Card.

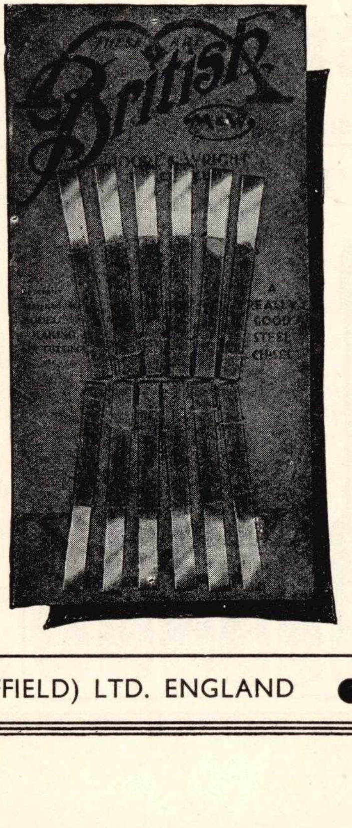
CAST STEEL CHISELS

for

Model Makers,
Keycutters, and any
Small, Fine Work.

No. 215
1 dozen on Card, as shown.
Size $3\frac{1}{2} \times \frac{3}{8} \times \frac{1}{8}$ in. $\frac{3}{8}$ in. on cut.
Approximate sizes.

No. 215
1 dozen on Card .. 3/3 per Card.



NEW PATTERN SOLDERING IRON

No. **768**

All the old troubles with rivets coming loose are abolished with this new shank.

NO RIVETS to come loose.

Copper bit in a more solid mass, thereby holding heat longer.

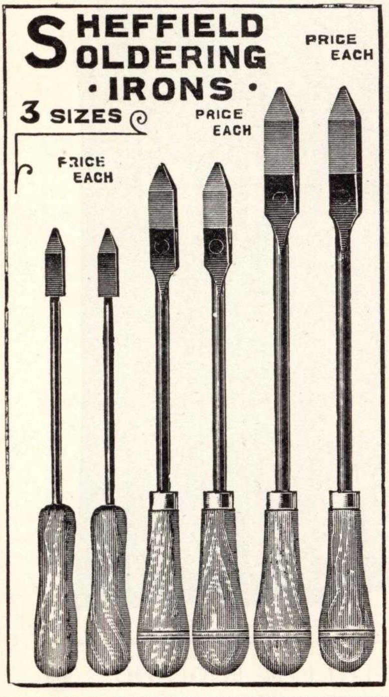
Tang goes right through head and is bent back and welded together **so head can never come off.**

No increase in price.

Weight of Copper	PRICES :	Weight of Copper	PRICES :
4 oz. ..	**1/4** each	16 oz. ..	**3/3** each
6 oz. ..	**1/8** ,,	18 oz. ..	**3/6** ,,
8 oz. ..	**2/–** ,,	20 oz. ..	**4/–** ,,
10 oz. ..	**2/2** ,,	22 oz. ..	**4/3** ,,
12 oz. ..	**2/6** ,,	24 oz. ..	**4/6** ,,
14 oz. ..	**3/–** ,,		

OLD PATTERN SOLDERING IRON

No. **770** Amateurs	No. 1	2	3	
Straight	**7d.**	**10d.**	**1/1**	each.
Hatchet	**9d.**	**1/–**	**1/3**	,,



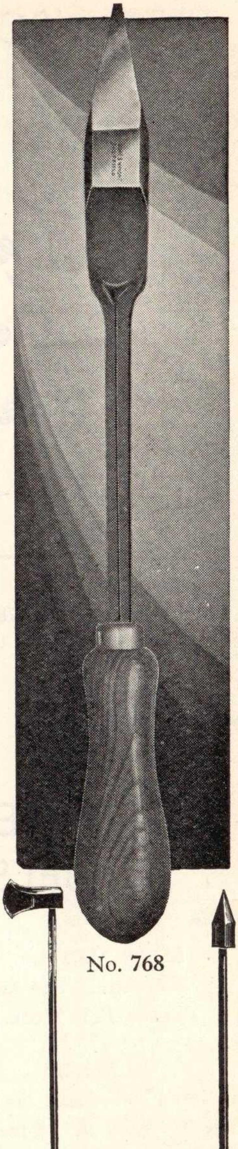
No. **772**
Card of 6,
Assorted,
No. 1, 2 & 3.
5/– per Card.

Small Soldering Irons for Model Makers.

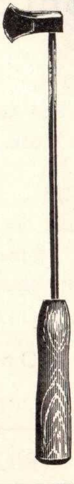
No. **773**
Straight
shape, 10 in.
overall,
5½d. each.

No. **774**
Hatchet
shape, 9½ in.
overall,
5½d. each.

No. **775**
Card of 1 doz.
Assorted,
No.773 &774
5/6 per Card.



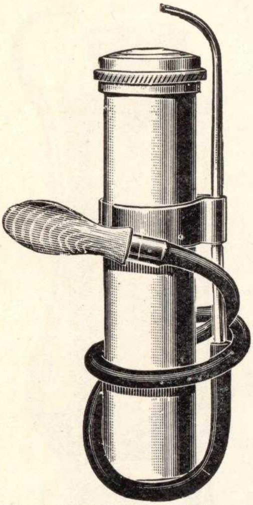
No. 768



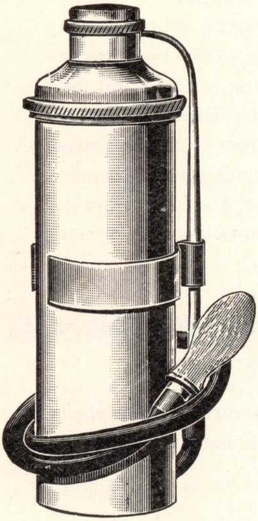
Nos. **774** and **773**

PLUMBERS' BRASS BLOW LAMPS

The Bodies of these Lamps are made of specially selected solid drawn tube. The Blow Pipe is fixed on a sliding spring, which grips the body of the lamp, and adjustments are readily effected. We beg to draw attention to the new registered reinforced bottom illustrated on page 150.

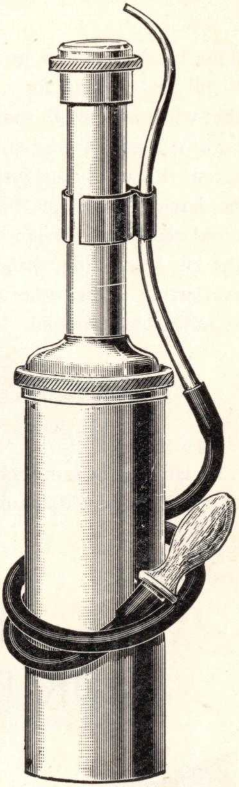


No. **600** 1 in. dia.,**2/6** each
4⅞ in. long overall

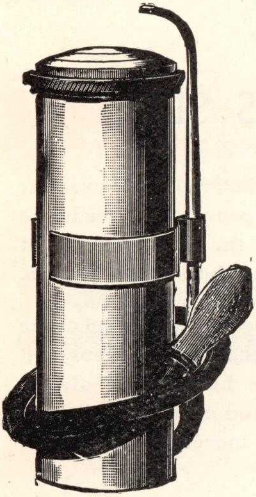


No. **601** 1½ in. dia.,
4/- each
5½ in. long overall

No. **605** As 601, but only 1 in. diameter, 6⅞ in. long overall .. **3/9** each



No. **603** 1½ in. dia., **4/9** each
8¼ in. long overall



No. **602** 1½ in. dia.,
3/6 each
4¾ in. long overall

The new registered bottom can never wear out and always ensures the lamp standing upright.

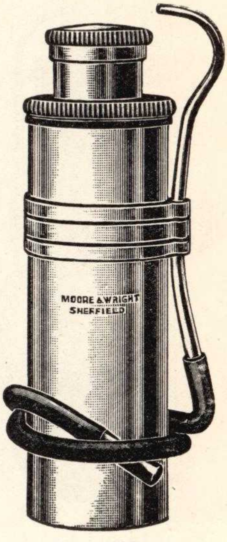
No. **606** Brass Blow Pipes only, **8/6** dozen; **9d.** each.

No. **607** Rubber Tube and Mouthpiece, **6d.** each; **5/6** per dozen.

Packed in ¼ dozens

SPECIAL STRONG BLOW LAMP

FOR HEAVY USE



No. **609**

This Lamp is a new line we have introduced to fill the demand for a strong robust article that will stand rough usage. The body of the lamp is made of very strong material and the screw thread is cut inside (where it cannot be damaged) and the bottom is of our registered reinforced design which always ensures the lamp standing upright, and is practically everlasting. The other parts of the lamp are suitably proportioned.

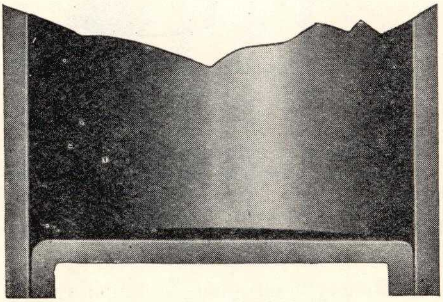
No. **609**

Price . . . . **5/6** each

$1\frac{5}{8}''$ diam., $5\frac{5}{8}''$ overall

This lamp is the same construction as supplied to leading Gas Companies and Corporations.

THIS IS WHY OUR BLOW LAMPS SELL



Reg. No. **670350**

This is the greatest improvement ever made in the construction of Plumbers' Blow Lamps.

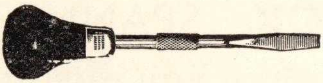
These bottoms can never leak, never wear out, and the Lamps will always stand upright. There is no increase in price.

Enlarged Section showing our Registered reinforced bottom

● MOORE & WRIGHT (SHEFFIELD) LTD. ENGLAND

KNURLED TURNSCREWS

WITH POLISHED RED HANDLES



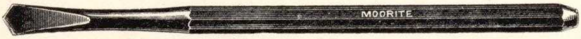
No. 283 Four Sizes

A very smart and reliable article, the knurled centre makes it possible to hold small screws very steadily.

1½″	2½″	3½″	6″	
6d.	**7d.**	**8d.**	**11d.**	each

Packed in ½ dozens

OCTAGON CAST STEEL WALL DRILLS



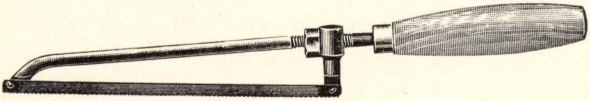
Just the thing for cutting through plaster, brick, etc. Well hardened and tempered.

No. **152**	9″ × ⅜″	**9d.** each
No. **153**	12″ × ½″	**11d.** „

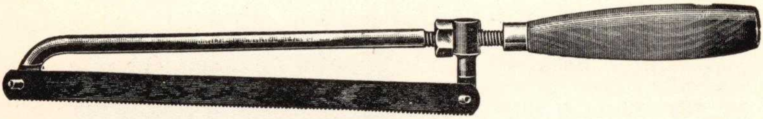
Packed in 1 dozens

No. **154**	Card of 6 each	**10/–** card

SMALL SPACE HACK SAW



No. **790**



No. **791**

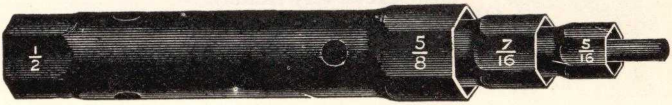
Specially made for use on wireless jobs, in confined spaces and any awkward places.

No. **790**	With one 6 in. blade Takes blade No. 666	**1/9** each
No. **791**	With one 8 in. blade Takes ordinary 8 in. blade	**2/–** „

Packed in ½ dozens

SHEFFIELD MADE BOX SPANNERS

NOW SUPPLIED WITH PEARLITE FINISH



DOUBLE ENDED. STRONG AND RELIABLE.

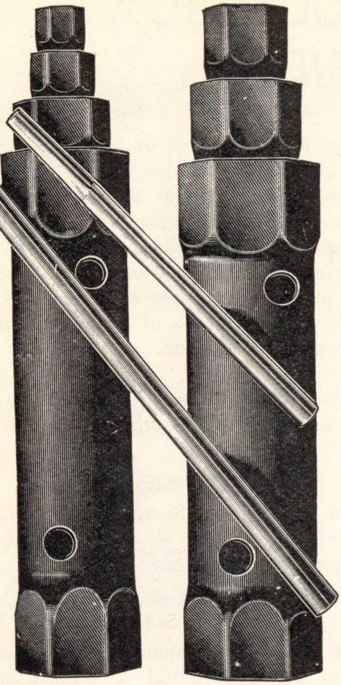
In Sets as below :—

No. 548	Cycle size, set of 3, taking $\frac{1}{8}''$, $\frac{3}{16}''$, $\frac{1}{4}''$, $\frac{5}{16}''$, $\frac{3}{8}''$, $\frac{7}{16}''$, and tommy, 3″ in length	1/-	per set
No. 547	Cycle size, Special, set of 3, smallest size has square at one end	**11d.**	„
No. 549	MOTOR Size, set of 3, taking $\frac{1}{4}''$, $\frac{5}{16}''$, $\frac{3}{8}''$, $\frac{7}{16}''$, $\frac{1}{2}''$, $\frac{5}{8}''$, and tommy, 7″ long	2/9	„
No. 557	Light Car Set of 3 taking $\frac{3}{16}''$ and $\frac{1}{4}''$ 4″ long .. .. $\frac{5}{16}''$ and $\frac{3}{8}''$ 5″ long .. .. $\frac{7}{16}''$ and $\frac{1}{2}''$ 6″ long	2/2	„
No. 556	Set of 4, all 7″ long, taking $\frac{1}{4}''$, $\frac{5}{16}''$, $\frac{3}{8}''$, $\frac{7}{16}''$, $\frac{1}{2}''$, $\frac{9}{16}''$, $\frac{5}{8}''$, $\frac{3}{4}''$	4/6	„
No. 558	Set of 4, all 7″ long, taking $\frac{1}{8}''$, $\frac{3}{16}''$, $\frac{1}{4}''$, $\frac{5}{16}''$, $\frac{3}{8}''$, $\frac{7}{16}''$, $\frac{1}{2}''$, $\frac{9}{16}''$	3/6	„
No. 559	Special Motor Set of 3, taking $\frac{1}{4}''$ $\frac{5}{16}''$ $4\frac{1}{2}''$ long $\frac{3}{8}''$ $\frac{7}{16}''$ 5″ long $\frac{1}{2}''$ $\frac{5}{8}''$ $5\frac{1}{2}''$ long	2/4	„

SHEFFIELD MADE

BOX SPANNERS

NOW SUPPLIED IN PEARLITE FINISH



Sold Singly as below :—

No. **548**

3″ long

				Each
A	for	$\frac{1}{8}$″ × $\frac{3}{16}$″	nuts	**4d.**
B	„	$\frac{1}{4}$″ × $\frac{5}{16}$″	„	**6d.**
C	„	$\frac{3}{8}$″ × $\frac{7}{16}$″	„	**8d.**

No. **540**

7″ long

A	for	$\frac{1}{8}$″ × $\frac{3}{16}$″	nuts	**6d.**
B	„	$\frac{3}{16}$″ × $\frac{1}{4}$″	„	**7d.**
C	„	$\frac{1}{4}$″ × $\frac{5}{16}$″	„	**8d.**
D	„	$\frac{5}{16}$″ × $\frac{3}{8}$″	„	**10d.**
E	„	$\frac{3}{8}$″ × $\frac{7}{16}$″	„	**1/–**
F	„	$\frac{3}{8}$″ × $\frac{1}{2}$″	„	**1/2**
G	„	$\frac{7}{16}$″ × $\frac{1}{2}$″	„	**1/3**
H	„	$\frac{1}{2}$″ × $\frac{9}{16}$″	„	**1/4**
J	„	$\frac{9}{16}$″ × $\frac{11}{16}$″	„	**1/4**
K	„	$\frac{1}{2}$″ × $\frac{5}{8}$″	„	**1/5**
L	„	$\frac{5}{8}$″ × $\frac{9}{16}$″	„	**1/5**
M	„	$\frac{5}{8}$″ × $\frac{3}{4}$″	„	**1/8**
N	„	$\frac{3}{4}$″ × $\frac{7}{8}$″	„	**1/10**
O	„	$\frac{7}{8}$″ × 1″	„	**2/–**
P	„	1″ × 1$\frac{1}{8}$″	„	**2/6**
Q	„	1″ × 1$\frac{1}{4}$″	„	**2/10**
R	„	1$\frac{1}{8}$″ × 1$\frac{1}{4}$″	„	**3/–**
S	„	1$\frac{1}{4}$″ × 1$\frac{1}{2}$″	„	**3/3**

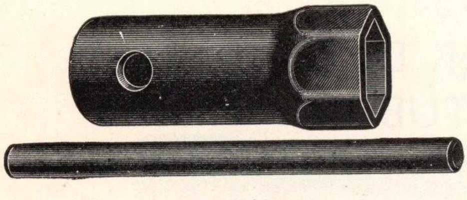
SPECIAL ENGINEERS' SET OF 7 SPANNERS

All 7 in. long 2 Tommy Bars.

1 each taking $\frac{3}{16}$″ × $\frac{1}{4}$″, $\frac{5}{16}$″ × $\frac{3}{8}$″, $\frac{7}{16}$″ × $\frac{1}{2}$″, $\frac{9}{16}$″ × $\frac{5}{8}$″, $\frac{11}{16}$″ × $\frac{3}{4}$″, $\frac{13}{16}$″ × $\frac{7}{8}$″, $\frac{15}{16}$ × 1″

No. **560** .. **10/–** per Set.

SPARK PLUG SPANNERS



No. 546

No. 546A
For $\frac{9}{16}$″ plugs .. **9d.** each

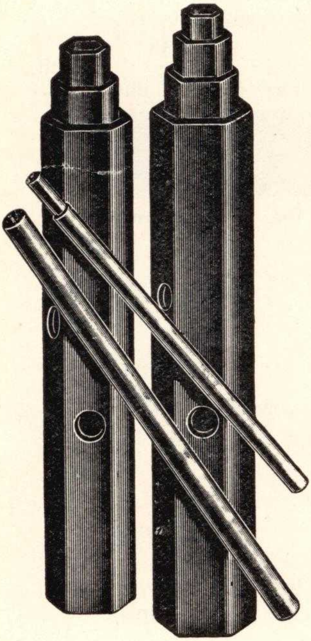
No. 546B
For $\frac{1}{2}$″ plugs .. **9d.** each

No. 546D
For 14 m/m plugs **9d.** each

No. **546C** Double ended Plug Spanner taking $\frac{1}{2}$″ and $\frac{9}{16}$″ plugs . . 1/– each

No. **546E**	Double ended	..	1$\frac{5}{32}$″ × $\frac{31}{32}$″ across flats	.. **1/2** each
No. **546F**	„ „	..	1$\frac{1}{32}$″ × $\frac{29}{32}$″ „ „	.. **1/2** „

ALL-HEXAGON BOX SPANNERS



These Spanners have at least ten times the life of the ordinary type of Box Spanner. As the ends become distorted by wear, the worn portion can be ground, or cut off, thus bringing into use an entirely new surface of correct size. This process can be repeated many times and **it saves the cost of a new spanner every time it is done.**

The Set detailed herewith is offered as a most useful Set for Motorists, etc.

No. 525

Set of 7, i.e., One Spanner each, taking nuts of $\frac{1}{8}''$, $\frac{3}{16}''$, $\frac{1}{4}''$, $\frac{5}{16}''$, $\frac{3}{8}''$, $\frac{7}{16}''$ and $\frac{1}{2}''$ Whitworth, 5/6 per set.

No. 524

Set of 4, i.e., One Spanner each, taking nuts of $\frac{1}{8}''$, $\frac{3}{16}''$, $\frac{1}{4}''$ and $\frac{5}{16}''$ Whitworth, 2/6 per set.

SINGLE SPANNERS

No. 523—

$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	inch
5d.	**7d.**	**8d.**	**10d.**	**11d.**	**1/3**	**1/5**	**1/8**	**1/8**	**2/–**	each

Nos. 523, 524 and 525 are now delivered with Pearlite finish.

HEXAGON DRAWN STEEL TUBING

IN 2 FOOT LENGTHS

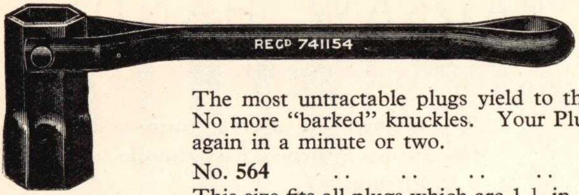
No. 522—

The sizes given are the sizes of Whitworth Bolt Head the tube will take.

$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	inch.
1/2	**1/3**	**1/5**	**1/8**	**1/10**	**2/4**	**2/9**	**3/–**	**3/3**	**4/3**	per 2 foot length.

SWIVEL PLUG SPANNERS

Superlative Efficiency



The most untractable plugs yield to this tool with ease. No more "barked" knuckles. Your Plugs are out and in again in a minute or two.

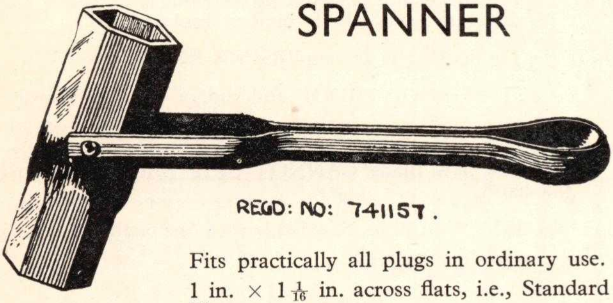
No. **564** .. .. Price **1/6** each

This size fits all plugs which are $1\frac{1}{16}$ in. across the hexagon flats, viz.: the Standard $\frac{9}{16}$ in. plug, i.e., Lodge, K.L.G., etc.

No. **564D** To fit 14 m/m Plugs .. .. **1/6** each

No. **564E** ,, ,, $\frac{5}{8}''$,, ... **1/6** each

DOUBLE ENDED PLUG SPANNER


REGD: NO: 741157.

Fits practically all plugs in ordinary use.

1 in. × $1\frac{1}{16}$ in. across flats, i.e., Standard $\frac{1}{2}$ in. × $\frac{9}{16}$ in. Plugs.

No. **565** Price .. .. **2/3** each

No. **566** Special long reach, Single Ended Spanner for Essex A.C., etc. .. **2/6** each

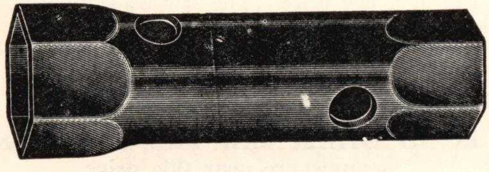
DOUBLE ENDED PLUG SPANNER

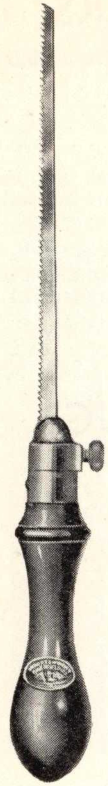
For 14 m/m and 18 m/m Plugs

One end $\frac{27}{32}''$ across flats and other end $1\frac{1}{32}''$ across flats.

No. **539** .. .. Price **1/3** each

No. **539**





REGISTERED

PADSAW HANDLE

No. 383

Re-designed and greatly improved.
Handsome Polished Red Handle.
N.P. Fittings.

We confidently put forward this Padsaw Handle as the most perfect yet made.

Its outstanding advantages are—

PERFECT LOCKING OF BLADE in any position.

The lock-tooth does not project, but is concealed and therefore cannot be injured or broken.

The locking is accomplished by a single screw.

IT IS FOOL-PROOF and cannot get out of order.

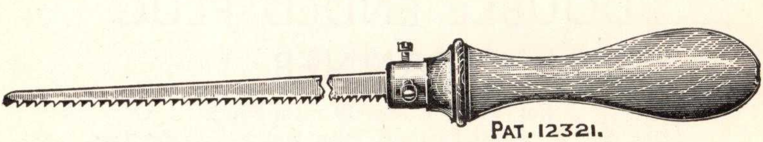
Attractive in appearance and handy to use.

The Saw Blade CANNOT SLIP BACK and injure the hand.

No. **383**	With 12 in. Saw Blade with fine teeth	**3/–** each
No. **383A**	Without Blade	**2/9** „

Packed in ½ dozens

POPULAR LOCKTOOTH SAW PAD

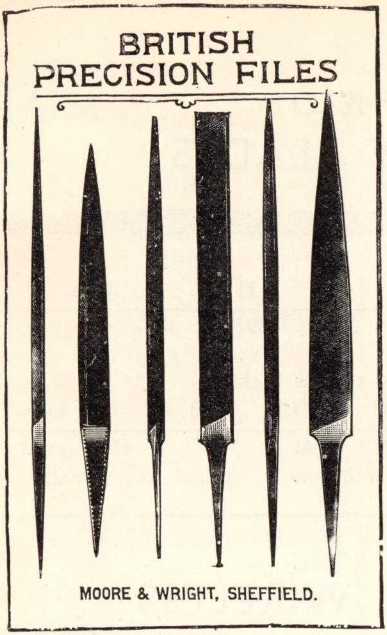


This Saw Pad has been introduced to meet the demand for a thoroughly reliable Saw Pad at a low price. The saw blade is perfectly rigid and positive in use and the patented device positively prevents it slipping back. It is light and handy and cannot be improved on at the price.

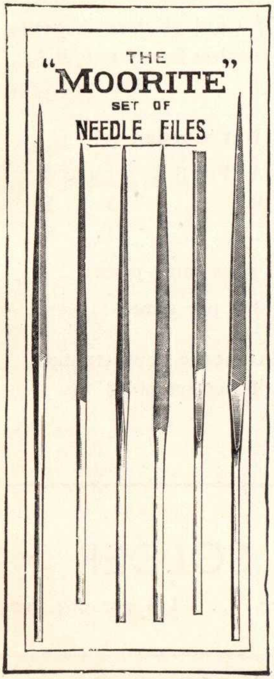
No. **781**	Handle only	**1/–** each
No. **782**	Complete with 11″ blade, as illustrated	**1/3** „

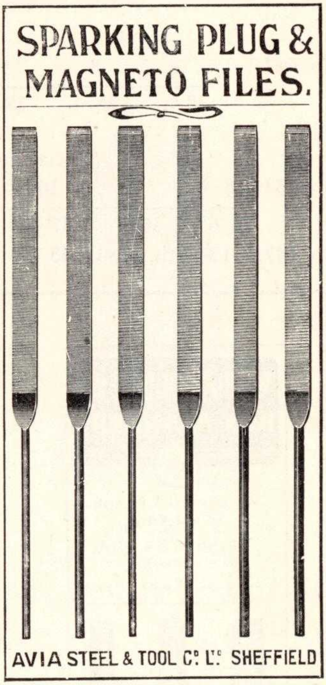
THERE IS NO OTHER SAW PAD with LOCKTOOTH at anywhere near this price

SMALL BRITISH FILES



No. 580
6 assorted Files of various shapes and cuts up to 3½″ 2/9 per card


THE "MOORITE" SET OF NEEDLE FILES


SPARKING PLUG & MAGNETO FILES.
AVIA STEEL & TOOL C^O. L^TD SHEFFIELD

No. 583
Spark Plug Files, 2/9 per card.
These files are now made with flat tangs.
No. 583B 1 doz. on card .. 5/-

No. 584

☛ NEEDLE FILES

Card of 6 Needle Files, round handle .. .. 2/- per card

LOOSE NEEDLE FILES, No. 584
14c/m 5½″ .. 4/- per doz.
All shapes same price.

SHEFFIELD
PAD SAW BLADES

No. 647	7	8	9	10	11	12	inch.
	28/-	28/-	28/-	28/-	29/-	30/-	per gross.

Special ground thin to back

No. 653	8	9	10	11	12	13	14	inch.
	35/6	36/6	37/9	38/9	41/-	43/-	45/-	gross.

No. **647A** 17 teeth to inch **45/-** **47/6** **49/6** ground thin to back.

WIRELESS
BOX SPANNERS

No. **544X** 1 Card of three, covering all sizes from 1 to 6, B.A.
11d. per Card

Not Carded

No. **544/A**	For B.A.	1 and 2.
No. **544/B**	„	3 „ 5.
No. **544/C**	„	4 „ 6.

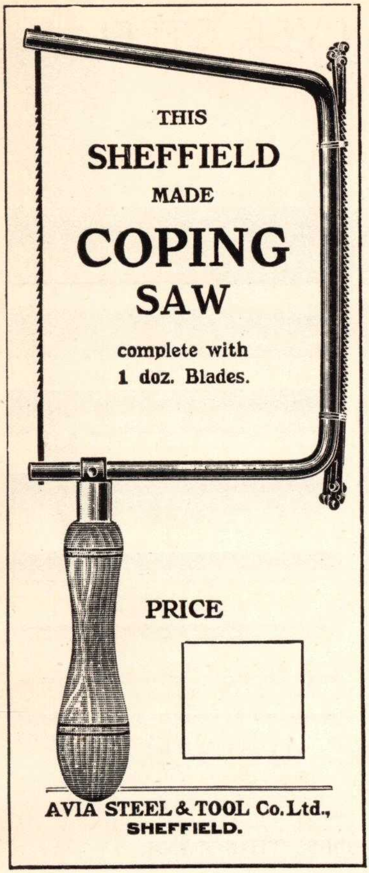
All sizes same price

3/6 per dozen

No. **551** As above, but stronger, **1/1** per set of 3.

SELF-FLUXING SOLDER

No. **776** Lengths of **Self-Fluxing Solder** .. **1/8** per doz. lengths



THIS
SHEFFIELD
MADE
COPING
SAW
complete with
1 doz. Blades.

PRICE

AVIA STEEL & TOOL Co. Ltd.,
SHEFFIELD.

↓

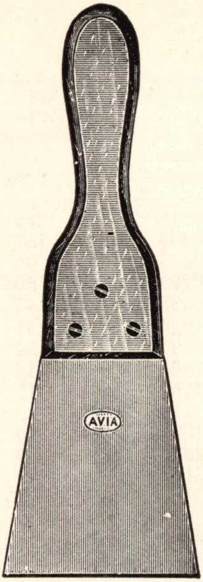
No. **630** .. **1/-** each
With 1 doz. saw blades.

No. **633** with one blade for metal and one for wood
Price .. **1/-** each

No. **631** loose Blades for wood.
Price **4/-** per gross

DISPLAY CARDS
sent out with
EVERY ORDER.

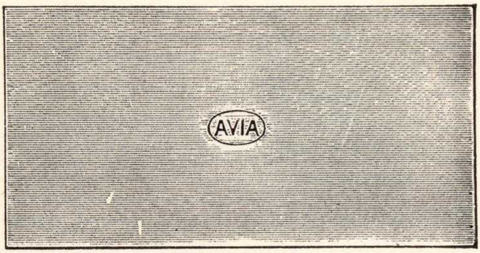
WALL SCRAPERS



No. **696**
3½ inch blade .. **9d.** each

No. **689** SPECIAL LINE **7d.** each

CABINET SCRAPERS



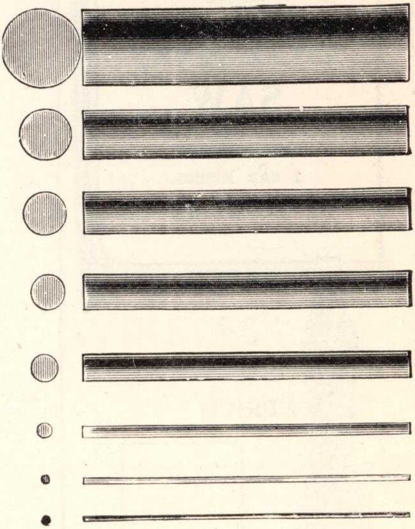
No. **697**

3″ × 1½″	4″ × 2″	5″ × 2½″	6″ × 3″
3/3	**4/-**	**4/9**	**6/-** doz.

“MOORITE” SILVER STEEL

No. **196**

Inch.	decimal.	Price per lb.	Approx. number of feet in 1 lb.
$\frac{1}{32}$	·0312	**9/6**	385
$\frac{3}{64}$	·0468	**6/–**	167
$\frac{1}{16}$	·0625	**4/10**	95
$\frac{5}{64}$	·0781	**3/6**	60
$\frac{3}{32}$	·0938	**3/6**	43
$\frac{7}{64}$	·1094	**3/–**	31
$\frac{1}{8}$	·125	**3/–**	24
$\frac{9}{64}$	·1406	**2/9**	18
$\frac{5}{32}$	·1562	**2/9**	15
$\frac{11}{64}$	·1718	**2/9**	13
$\frac{3}{16}$	·1875	**2/6**	10
$\frac{13}{64}$	·2031	**2/6**	9
$\frac{7}{32}$	·2187	**2/6**	7
$\frac{15}{64}$	·2344	**2/6**	6½
$\frac{1}{4}$	·250	**2/6**	6
$\frac{9}{32}$	·2812	**2/6**	4½
$\frac{5}{16}$	·3125	**2/6**	3¾
$\frac{11}{32}$	·3438	**2/6**	3
$\frac{3}{8}$	·375	**2/6**	2
$\frac{7}{16}$	·4375	**2/6**	2
$\frac{1}{2}$	·500	**2/6**	1½
$\frac{9}{16}$	·5625	**2/6**	1 full
$\frac{5}{8}$	·625	**2/6**	1 bare

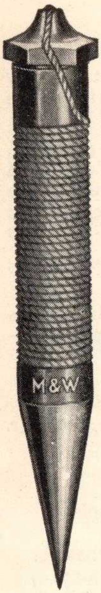


ASK FOR DISCOUNT OFF THIS LINE.

Square Silver Steel can be supplied.

SPECIAL NOTE

When any size of Silver Steel is ordered, **except fractional sizes,** it saves time and possible errors to give the sizes in thousandths of an inch. Avoid ordering in gauge sizes, as owing to the large number of Gauges in use, errors may ensue.



STEEL PLUMB-BOBS

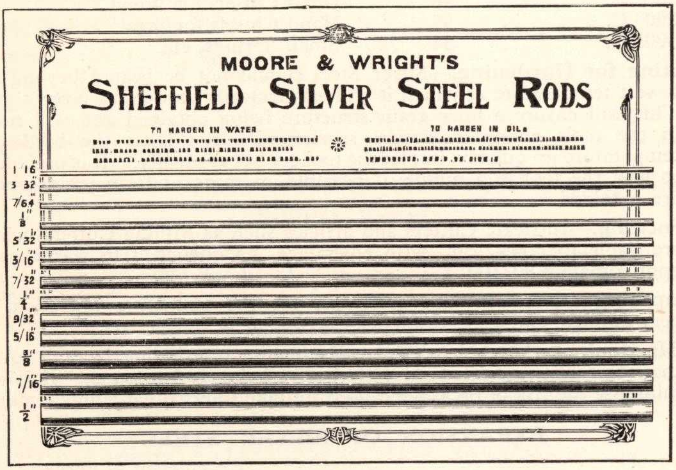
These Plumb-Bobs are turned from solid steel, are accurate and will hang perfectly true. They are nicely mottled and have hardened points. The centre portion of the Plumb-Bob is recessed to accommodate the line.

No. 293 Weight 4 ozs., length $4\frac{1}{2}''$, diameter $\frac{5}{8}''$.

2/8 each.

No. 293

CARDS OF SILVER STEEL



No. 192 round

No. 195	Card of $\frac{1}{16}$ to $\frac{5}{16}$	2/- per card
„ 192	Card of Silver Steel, as illustrated	4/6 „
„ 193	Parcel of 1-lb. assorted	2/- per parcel
„ 194	Parcel of 2-lb. assorted	3/- „
„ 194A	Box containing one length each $\frac{1}{16}$ to $\frac{5}{16}$ rising by 64ths, and one length $\frac{3}{8}''$. 16 lengths in all. 3/- per box.	

SILVER STEEL

Silver Steel is of the Crucible Carbon Tool Steel variety and is not an Alloy Steel in the general sense. It is particularly free from all impurities such as Sulphur, Phosphorus, and slag inclusions.

It machines easily and smoothly and is the ideal steel for general purposes. It can be used in its natural state as supplied, or it can be hardened and tempered to suit requirements. By different treatment a very wide variation in physical characteristics can be obtained, and for this reason it is particularly suitable for general purposes.

It can be used for the production of small tools, taps, punches, drills, instrument and metre parts, and small machine parts.

We give you below heat treatment instructions and Rockwell Hardnesses for the various purposes to which Silver Steel may be successfully applied :—

QUENCHING TEMPERATURES

	In Water.	In Oil.
Hardening :	750/770° C.	770/790° C.

Tempering :

Tempered at	Rockwell.	Purpose.
200° C.	64	Engraving Tools.
210° C.	63	Scrapers and small Lathe Tools.
220° C.	62	Master Gauges.
230° C.	61	Twist Drills (small), Taps, Chasers.
240° C.	60	Twist Drills (med. size), Reamers.
250° C.	59	Twist Drills (large), Jewellers' Rolls.
260° C.	58	Large Reamers, Taps, etc.
270° C.	57	Ivory Cutting Tools.
280° C.	56	Hand Chisels for Wood.
290° C.	55	Hand Chisels for Steel.
300° C.	54	Small Springs, etc.

Heating for Hardening.—Silver Steel should not be heated beyond the lowest temperature at which it will satisfactorily harden, as given above. This will ensure a finer grain structure being obtained and will result in the tools giving maximum service. Do not force the hardening temperature up quickly, but let the tool get hot gradually. It is preferable to heat the tool in a muffle, if possible, as more uniform temperatures are obtained.

Quenching.—Intricate Cutters and articles such as Milling Cutters, which are liable to crack, can, with advantage, be quenched in warm water approximately 80/100° C.

Tempering.—Oil Baths are preferable for the tempering operation, as very uniform and exact results can be obtained.

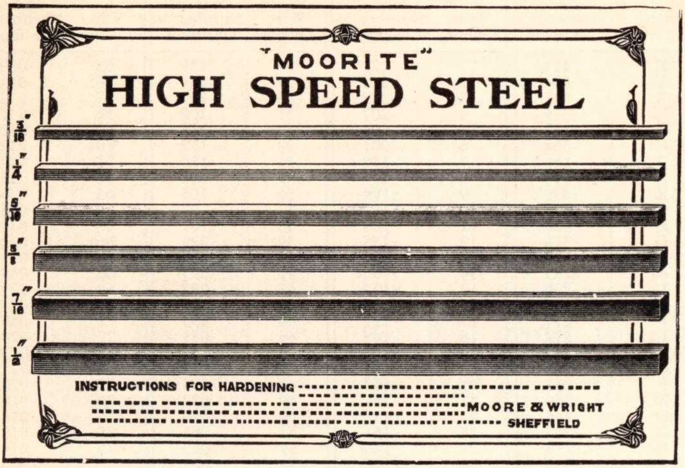
Re-Hardening.—When hardened tools require re-grinding be sure to see that the tool is annealed correctly before being re-hardened. This will minimise the risk of breakage caused through internal hardening strains.

EXPANSION OF SILVER STEEL

	Co-efficient of linear Expansion per 1° C.
Annealed Condition.	
110° C.	·0000052
210° C.	·0000067
Hardened Condition.	
110° C.	·0000097
210° C.	·0000098

"MOORITE" HIGH SPEED STEEL

In 1 foot lengths, annealed.



Card No.	190	Square.	6 bars as shown	.. ..	per card
„	191	Round.	6 bars same diameters	..	„

High Speed Steel can also be supplied in bars of 12″ long, as follows :—

Square	$\frac{3}{16}''$	$\frac{1}{4}''$	$\frac{5}{16}''$	$\frac{3}{8}''$	$\frac{7}{16}''$	$\frac{1}{2}''$	square.
Round	$\frac{3}{16}''$	$\frac{1}{4}''$	$\frac{5}{16}''$	$\frac{3}{8}''$	$\frac{7}{16}''$	$\frac{1}{2}''$	„

Price on application

HARDENING INSTRUCTIONS FOR "MOORITE" HIGH SPEED STEEL

"Moorite" High Speed Steel is SUPREME for all turning and form tools, and is infinitely more durable than the best cast steel. Will stand highest possible speeds and feeds.

TO HARDEN.—Heat carefully to bright red and then quickly to nearly white heat, then immerse quickly in cold air blast, whale oil, tallow or paraffin. If great care is used, the cutting edge can be immersed in nearly boiling water and then the body of the tool cooled off immediately afterwards. Use plenty of water when grinding.

FORGING.—Forge at 1100/1200° C. High Speed Steels require care in heating and must be re-heated as often as necessary to keep the Steel well over a bright red heat, 900° C.

ANNEALING.—All forging, whilst still hot, should be put back in a furnace at a temperature not exceeding 850° C., and allowed to cool slowly. For complete annealing, heat for 2/3 hours at 800/825° C., and cool slowly in the furnace.

Decimal Equivalents of Stubs' Steel Wire Gauge

Letter.	Size of Letter in Decimals.	No. of Wire Gauge.	Size of Number in Decimals.	No. of Wire Gauge.	Size of Number in Decimals.	No. of Wire Gauge.	Size of Number in Decimals.
Z	·413	1	·227	28	·139	55	·050
Y	·404	2	·219	29	·134	56	·045
X	·397	3	·212	30	·127	57	·042
W	·386	4	·207	31	·120	58	·041
V	·377	5	·204	32	·115	59	·040
U	·368	6	·201	33	·112	60	·039
T	·358	7	·199	34	·110	61	·038
S	·348	8	·197	35	·108	62	·037
R	·339	9	·194	36	·106	63	·036
Q	·332	10	·191	37	·103	64	·035
P	·323	11	·188	38	·101	65	·033
O	·316	12	·185	39	·099	66	·032
N	·302	13	·182	40	·097	67	·031
M	·295	14	·180	41	·095	68	·030
L	·290	15	·178	42	·092	69	·029
K	·281	16	·175	43	·088	70	·027
J	·277	17	·172	44	·085	71	·026
I	·272	18	·168	45	·081	72	·024
H	·266	19	·164	46	·079	73	·023
G	·261	20	·161	47	·077	74	·022
F	·257	21	·157	48	·075	75	·020
E	·250	22	·155	49	·072	76	·018
D	·246	23	·153	50	·069	77	·016
C	·242	24	·151	51	·066	78	·015
B	·238	25	·148	52	·063	79	·014
A	·234	26	·146	53	·058	80	·013
		27	·143	54	·055		

STUBS' GAUGES.—In using the gauges known as Stubs' Gauges, there should be constantly borne in mind the difference between the Stubs' Iron Wire Gauge and the Stubs' Steel Wire Gauge. The Stubs' Iron Wire Gauge is the one commonly known as the Birmingham Gauge, and designates the Stubs' soft wire sizes. The Stubs' Steel Wire Gauge is the one that is used in measuring Drawn Steel Wire.

The International Standard Metric System

NOTE.—The French Thread is being gradually displaced by the International Standard Metric Thread.

Diam. in m/m.	Pitch in m/m		Diam. in m/m.	Pitch in m/m		Diam. in m/m.	Pitch in m/m	
	International Standard	French Standard		International Standard	French Standard		International Standard	French Standard
2	·4	—	27	3·0	—	72	6·0	—
3	·5	·5	28	—	3·0	76	6·0	—
4	·7	·75	30	3·5	3·5	80	6·0	—
5	·8	·75	32	—	3·5	84	6·0	—
6	1·0	1·0	33	3·5	—	89	6·0	—
7	1·0	1·0	34	—	3·5	94	6·0	—
8	1·25	1·0	36	4·0	4·0	99	6·0	—
9	1·25	1·0	38	—	4·0	104	6·0	—
10	1·5	1·5	39	4·0	—	109	6·0	—
11	1·5	—	40	—	4·0	114	6·0	—
12	1·75	1·5	42	4·5	4·5	119	6·0	—
14	2·0	2·0	45	4·5	—	124	6·0	—
16	2·0	2·0	48	5·0	—	129	6·0	—
18	2·5	2·5	52	5·0	—	134	6·0	—
20	2·5	2·5	56	5·5	—	139	6·0	—
22	2·5	2·5	60	5·5	—	144	6·0	—
24	3·0	3·0	64	6·0	—			
26	—	3·0	68	6·0	—			

Decimal Equivalents of Millimeters and Fractions of m/m.

m/m Inches	m/m Inches	m/m Inches	m/m Inches	m/m Inches
$\frac{1}{100}$ = ·00039	$\frac{26}{100}$ = ·01024	$\frac{51}{100}$ = ·02008	$\frac{76}{100}$ = ·02992	2 = ·07874
$\frac{2}{100}$ = ·00079	$\frac{27}{100}$ = ·01063	$\frac{52}{100}$ = ·02047	$\frac{77}{100}$ = ·03032	3 = ·11811
$\frac{3}{100}$ = ·00118	$\frac{28}{100}$ = ·01102	$\frac{53}{100}$ = ·02087	$\frac{78}{100}$ = ·03071	4 = ·15748
$\frac{4}{100}$ = ·00157	$\frac{29}{100}$ = ·01142	$\frac{54}{100}$ = ·02126	$\frac{79}{100}$ = ·03110	5 = ·19685
$\frac{5}{100}$ = ·00197	$\frac{30}{100}$ = ·01181	$\frac{55}{100}$ = ·02165	$\frac{80}{100}$ = ·03150	6 = ·23622
$\frac{6}{100}$ = ·00236	$\frac{31}{100}$ = ·01220	$\frac{56}{100}$ = ·02205	$\frac{81}{100}$ = ·03189	7 = ·27559
$\frac{7}{100}$ = ·00276	$\frac{32}{100}$ = ·01260	$\frac{57}{100}$ = ·02244	$\frac{82}{100}$ = ·03228	8 = ·31496
$\frac{8}{100}$ = ·00315	$\frac{33}{100}$ = ·01299	$\frac{58}{100}$ = ·02283	$\frac{83}{100}$ = ·03268	9 = ·35433
$\frac{9}{100}$ = ·00354	$\frac{34}{100}$ = ·01339	$\frac{59}{100}$ = ·02323	$\frac{84}{100}$ = ·03307	10 = ·39370
$\frac{10}{100}$ = ·00394	$\frac{35}{100}$ = ·01378	$\frac{60}{100}$ = ·02362	$\frac{85}{100}$ = ·03346	11 = ·43307
$\frac{11}{100}$ = ·00433	$\frac{36}{100}$ = ·01417	$\frac{61}{100}$ = ·02402	$\frac{86}{100}$ = ·03386	12 = ·47244
$\frac{12}{100}$ = ·00472	$\frac{37}{100}$ = ·01457	$\frac{62}{100}$ = ·02441	$\frac{87}{100}$ = ·03425	13 = ·51181
$\frac{13}{100}$ = ·00512	$\frac{38}{100}$ = ·01496	$\frac{63}{100}$ = ·02480	$\frac{88}{100}$ = ·03465	14 = ·55118
$\frac{14}{100}$ = ·00551	$\frac{39}{100}$ = ·01535	$\frac{64}{100}$ = ·02520	$\frac{89}{100}$ = ·03504	15 = ·59055
$\frac{15}{100}$ = ·00591	$\frac{40}{100}$ = ·01575	$\frac{65}{100}$ = ·02559	$\frac{90}{100}$ = ·03543	16 = ·62992
$\frac{16}{100}$ = ·00630	$\frac{41}{100}$ = ·01614	$\frac{66}{100}$ = ·02598	$\frac{91}{100}$ = ·03583	17 = ·66929
$\frac{17}{100}$ = ·00669	$\frac{42}{100}$ = ·01654	$\frac{67}{100}$ = ·02638	$\frac{92}{100}$ = ·03622	18 = ·70866
$\frac{18}{100}$ = ·00709	$\frac{43}{100}$ = ·01693	$\frac{68}{100}$ = ·02677	$\frac{93}{100}$ = ·03661	19 = ·74803
$\frac{19}{100}$ = ·00748	$\frac{44}{100}$ = ·01732	$\frac{69}{100}$ = ·02717	$\frac{94}{100}$ = ·03701	20 = ·78740
$\frac{20}{100}$ = ·00787	$\frac{45}{100}$ = ·01772	$\frac{70}{100}$ = ·02756	$\frac{95}{100}$ = ·03740	21 = ·82677
$\frac{21}{100}$ = ·00827	$\frac{46}{100}$ = ·01811	$\frac{71}{100}$ = ·02795	$\frac{96}{100}$ = ·03780	22 = ·86614
$\frac{22}{100}$ = ·00866	$\frac{47}{100}$ = ·01850	$\frac{72}{100}$ = ·02835	$\frac{97}{100}$ = ·03819	23 = ·90551
$\frac{23}{100}$ = ·00906	$\frac{48}{100}$ = ·01890	$\frac{73}{100}$ = ·02874	$\frac{98}{100}$ = ·03858	24 = ·94488
$\frac{24}{100}$ = ·00945	$\frac{49}{100}$ = ·01929	$\frac{74}{100}$ = ·02913	$\frac{99}{100}$ = ·03898	25 = ·98425
$\frac{25}{100}$ = ·00984	$\frac{50}{100}$ = ·01969	$\frac{75}{100}$ = ·02953	1 = ·03937	26 = 1·02362

TO TEST STEEL AND IRON.

Nitric Acid will produce a black spot on steel ; the darker the spot the harder the steel. Iron, on the contrary, remains bright if touched with nitric acid. Good steel in its soft state has a curved fracture and a uniform grey lustre ; in its hard state a dull, silvery uniform white. Cracks, threads or sparkling particles denote bad quality.

A white heat will ruin good steel, and it cannot be forged under the hammer at a bright red heat, but it is most ductile at a moderate heat. When hardened in water the strength of steel is reduced, but is increased in strength and toughness by being hardened in oil.

Case-hardening weakens bolts.

Imperial Standard Wire Gauge

No. of Wire Gauge.	Inches	No. of Wire Gauge.	Inches	No. of Wire Gauge.	Inches	No. of Wire Gauge.	Inches
000000	·464	7	·176	19	·040	30	·0124
00000	·432	8	·160	20	·036	31	·0116
0000	·400	9	·144	21	·032	32	·0108
000	·372	10	·128	22	·028	33	·0100
00	·348	11	·116	23	·024	34	·0092
0	·324	12	·104	24	·022	35	·0084
1	·300	13	·092	25	·020	36	·0076
2	·276	14	·080	26	·018	37	·0068
3	·252	15	·072	27	·0164	38	·0060
4	·232	16	·064	28	·0149	39	·0052
5	·212	17	·056	29	·0136	40	·0048
6	·192	18	·048				

NOTES

DISPLAY MATERIAL

- The following pages are devoted to a comprehensive range of showcards and display stands of our most popular lines.

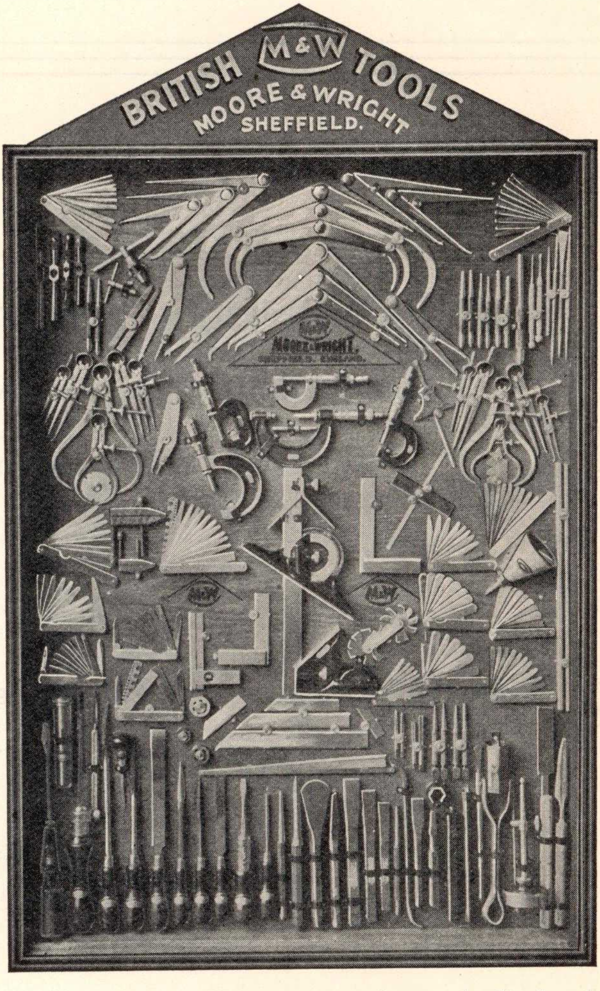
- An exceptional turnover is ensured if you use these advertising mediums in your window or on your counter.

SHOW CASES

This is an illustration of a Show Case containing a selection of our articles. It is very effective as a business bringer.

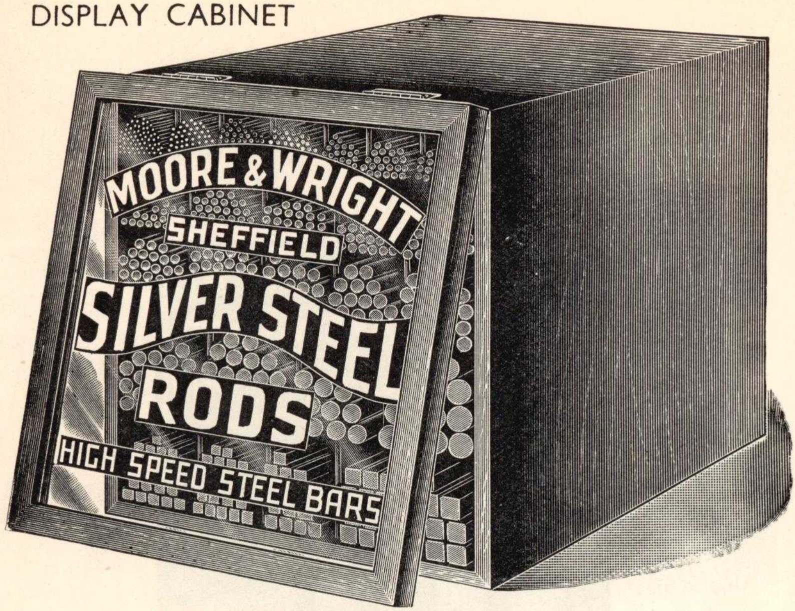
It is supplied in polished Oak.

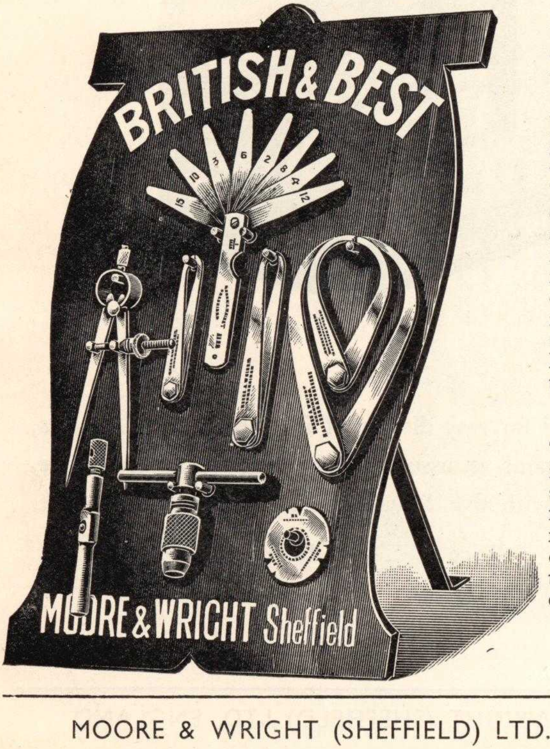
No. **1000**	Size 30″ × 20″
No. **1006**	Size 42″ × 30″



Note — The cases now supplied vary from the illustration owing to the inclusion of many new lines.

We supply the Case complete, to the Trade only, **at the cost of the Tools only.**





No. **1005**

We supply this Polished Oak Cabinet at actual cost to buyers of "Moorite" Silver Steel. It is convenient to sell from, and **ENORMOUSLY INCREASES SALES.**

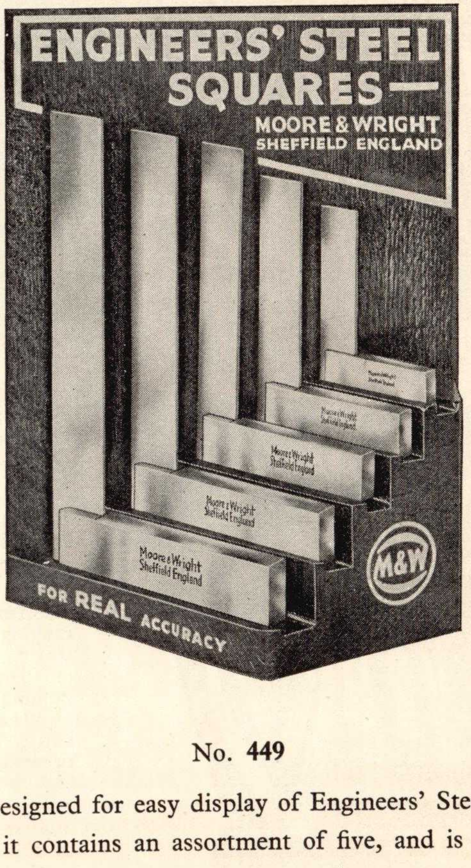
This Case is sold either empty or filled with an assortment of Silver Steel ranging from $\frac{1}{32}''$ to $\frac{1}{2}''$ round, and an assortment of High Speed Steel ranging from $\frac{1}{4}''$ to $\frac{1}{2}''$ square. Polished Oak. Prices and further particulars on application.

No. **1002**

This is an Artistic Stand, in dull polished Oak, that shows the tools up to perfection. The Stand itself is calculated at less than cost, and will earn more than we charge for it every week.

Price :
(with Tools as shown)
13/6 each.

NEW STAND FOR ENGINEERS' SQUARES



No. **449**

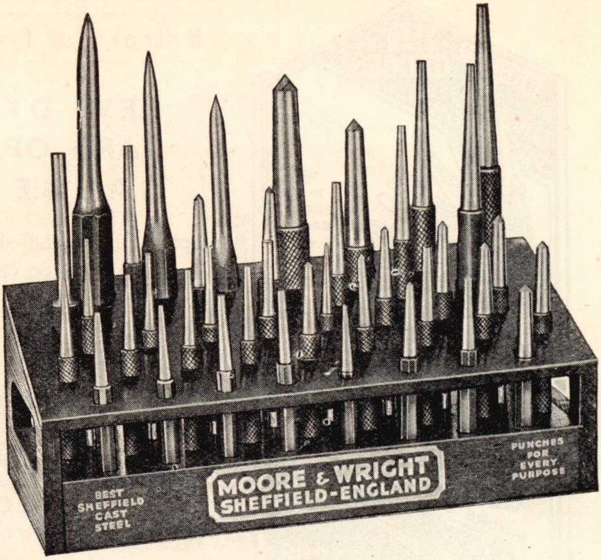
A Stand designed for easy display of Engineers' Steel Squares, of which, it contains an assortment of five, and is given free, with five Squares, as shown.

Price .. **16/6**

NEW PUNCH STAND

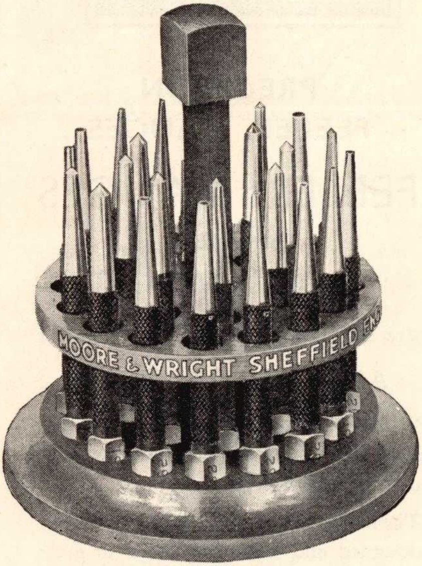
No. 184
Consisting of 39 Punches of assorted sizes and lengths.

Price :
29/8 each.
No charge for the Stand.



SQUARE HEAD NAIL SETS AND CENTRE PUNCHES ON STAND

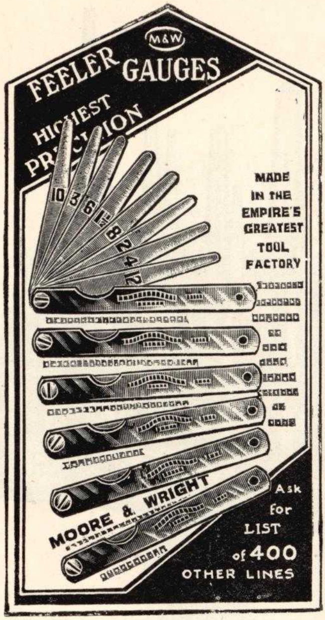
No. 186
This Stand contains 2 dozen Square Head Nail Sets and Centre Punches and is given free with orders of 6 dozen assorted.



No. **186**

PRECISION FEELER GAUGES

Britain's Tool Factory


M&W
FEELER GAUGES
HIGHEST PRECISION
10 3 6 1½ 8 2 4 12
MADE IN THE EMPIRE'S GREATEST TOOL FACTORY
MOORE & WRIGHT
Ask for LIST of 400 OTHER LINES

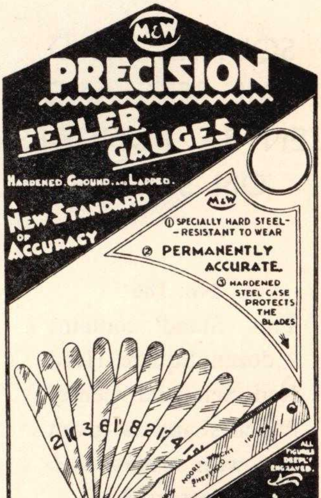
NEW DISPLAY CARD OF FEELER GAUGE No. 14

Spare Blades can always be obtained Accurate to Finest Government Limits. This Card enables you to show our No. 14 Feeler to advantage.

Because of its small bulk, its accuracy and its light weight it is immensely popular.

No. 14A Card of 6 No. 14 Gauges
16/6 Card.

(See page 78).


M&W
PRECISION
FEELER GAUGES.
HARDENED. GROUND. AND LAPPED.
A NEW STANDARD OF ACCURACY
M&W
① SPECIALLY HARD STEEL — RESISTANT TO WEAR
② PERMANENTLY ACCURATE.
③ HARDENED STEEL CASE PROTECTS THE BLADES
ALL FIGURES DEEPLY ENGRAVED.
A "BRITAIN'S TOOL FACTORY" PRODUCT.
Get our list of 400 other tools
MOORE & WRIGHT.
SHEFFIELD. ENGLAND.

PRECISION FEELER GAUGES

FEELER GAUGES

MARKED

"MOORE & WRIGHT"

Are the World's Finest Production for

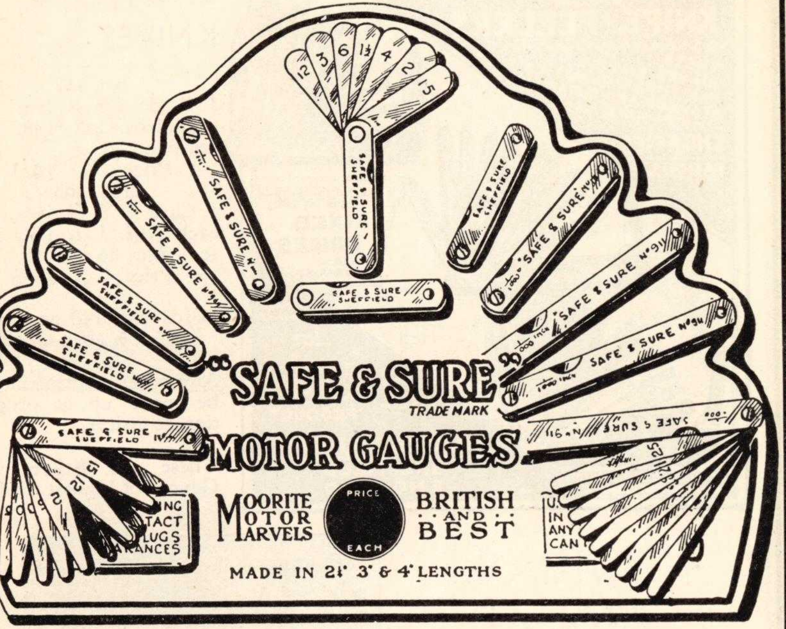
ACCURACY & FINISH

With every order for Feeler Gauges at least one is mounted on an attractive card as shown, free of charge.

These cards have been specially designed and show the goods to great advantage.

CHEAP LINES of FEELER GAUGES

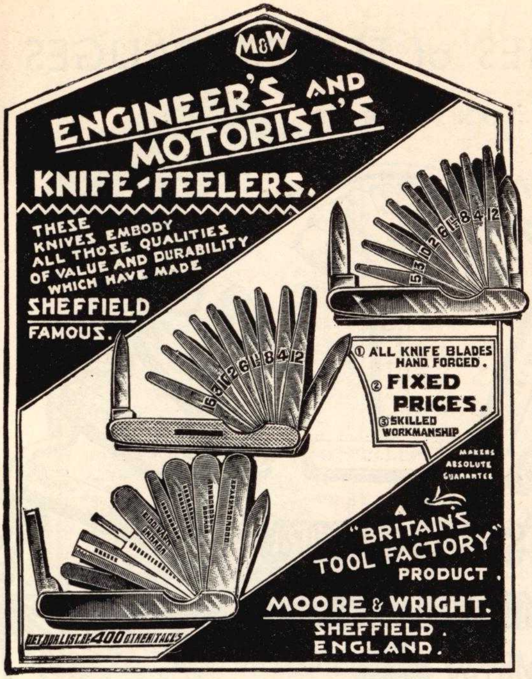
ON CARDS



The above illustration shows the cheap and popular line of Feeler Gauges, "Safe and Sure" Brand, mounted on attractive cards. A variety of assortments is offered below :—

Card No.	**928**	Contains one dozen of 2¼ in. gauges, No. 918	**10/-** per card
„	**928T**	„ 2¼ in. „ No. 918T	**12/-** per card
„	**919**	Contains one dozen of 3 in. parallel blade gauges No. 909	**15/-** per card
„	**922**	Contains one dozen of 3 in. tapered blade gauges No. 912	**21/-** per card
„	**921**	Contains one dozen of 4 in. tapered blade gauges No. 911	**24/-** per card
„	**924**	Contains ¼ dozen of each Nos. 918, 909, 912, and 911	**17/6** per card

Our Carded Goods will brighten up your shop and increase your turnover.


M&W
ENGINEER'S AND MOTORIST'S
KNIFE-FEELERS.
THESE KNIVES EMBODY ALL THOSE QUALITIES OF VALUE AND DURABILITY WHICH HAVE MADE
SHEFFIELD
FAMOUS.
① ALL KNIFE BLADES HAND FORGED.
② FIXED PRICES.
③ SKILLED WORKMANSHIP
MAKERS ABSOLUTE GUARANTEE
A "BRITAIN'S TOOL FACTORY" PRODUCT.
MOORE & WRIGHT.
SHEFFIELD. ENGLAND.
GET OUR LIST OF 400 OTHER TOOLS

CARD OF QUALITY ENGINEERS' KNIVES

No. **162**
1 Card of 3 Knives, one each Nos. 137, 138, 141, see page 86.
Price .. **18/3**

No. **163**
1 Card of 3 Knives, one each Nos. 137, 151, 141, see pages 86 and 87.
Price .. **18/3**

Cards No. 140 and 140A are now abandoned.

Any other assortment can be made up at proportionate prices.

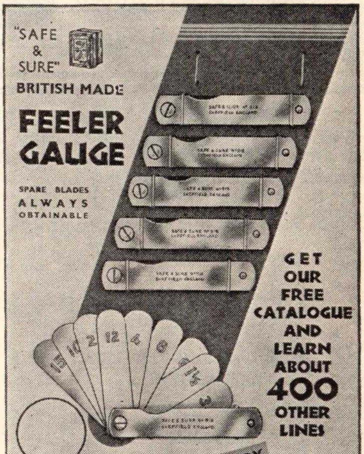
These are Knives and Gauges of highest quality.

No. **920**

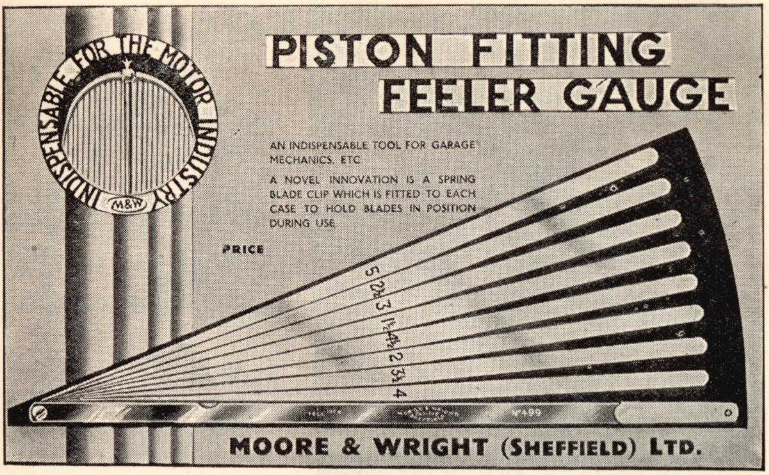
A new and unique Display Card that sells itself at once. It dispenses with the "first customer" bogey, and is a sound selling line.

Supplied at the price of the Gauges only.

No charge for the Display Card.


"SAFE & SURE"
BRITISH MADE
FEELER GAUGE
SPARE BLADES ALWAYS OBTAINABLE
GET OUR FREE CATALOGUE AND LEARN ABOUT 400 OTHER LINES
EACH
BRITAIN'S TOOL FACTORY
MOORE & WRIGHT (Sheffield) LTD
ENGINEERS' PRECISION TOOLS

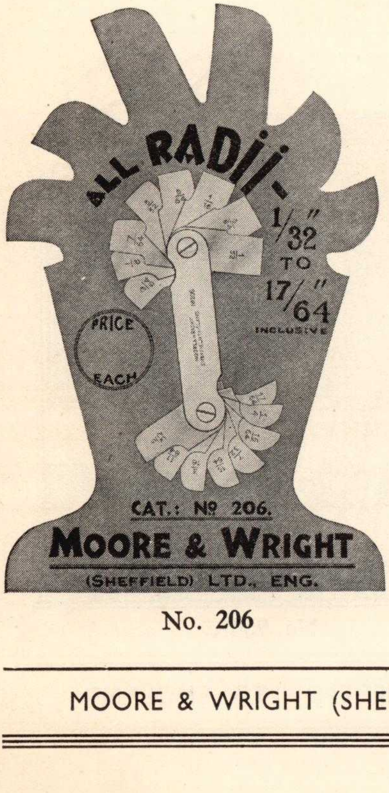
PISTON FITTING FEELER GAUGE


INDISPENSABLE FOR THE MOTOR INDUSTRY
M&W
PISTON FITTING
FEELER GAUGE
PRICE
5
2½
3
1½
2
3½
4
Nº499
MOORE & WRIGHT (SHEFFIELD) LTD.

AN INDISPENSABLE TOOL FOR GARAGE MECHANICS, ETC.

A NOVEL INNOVATION IS A SPRING BLADE CLIP WHICH IS FITTED TO EACH CASE TO HOLD BLADES IN POSITION DURING USE.

No. 499



No. 206

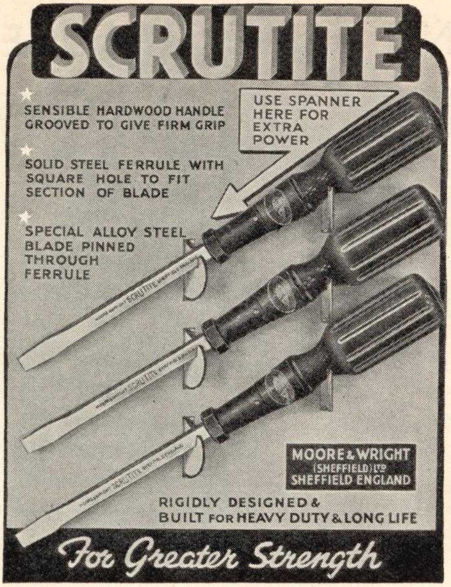
RADIUS GAUGES

Here are two new Cards that cannot fail to sell these Gauges.

Their bright appearance will enhance any Window or Counter Display.

Prices :

No. 499	..	10/9 each
No. 206	..	5/6 each


SCRUTITE
SENSIBLE HARDWOOD HANDLE GROOVED TO GIVE FIRM GRIP
SOLID STEEL FERRULE WITH SQUARE HOLE TO FIT SECTION OF BLADE
SPECIAL ALLOY STEEL BLADE PINNED THROUGH FERRULE
USE SPANNER HERE FOR EXTRA POWER
MOORE & WRIGHT (SHEFFIELD) LTD SHEFFIELD ENGLAND
RIGIDLY DESIGNED & BUILT FOR HEAVY DUTY & LONG LIFE
For Greater Strength

No. 288A

ROBUST SCREWDRIVER

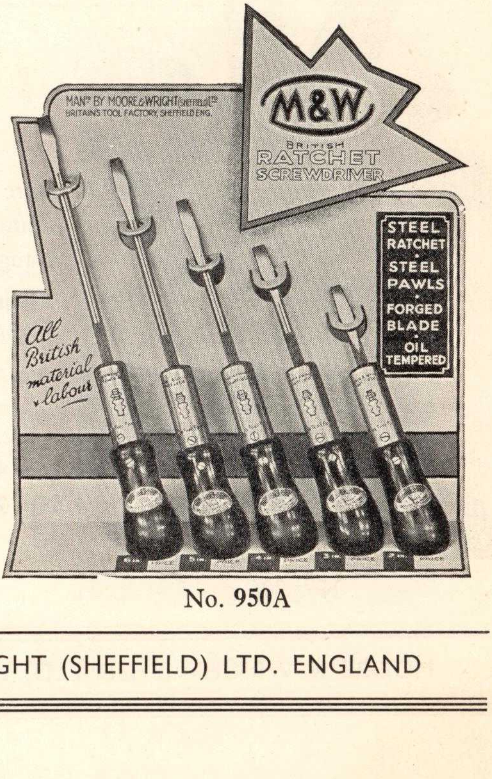
An attractive Card that sells these powerful Screwdrivers on sight.

Price .. 6/– per Card

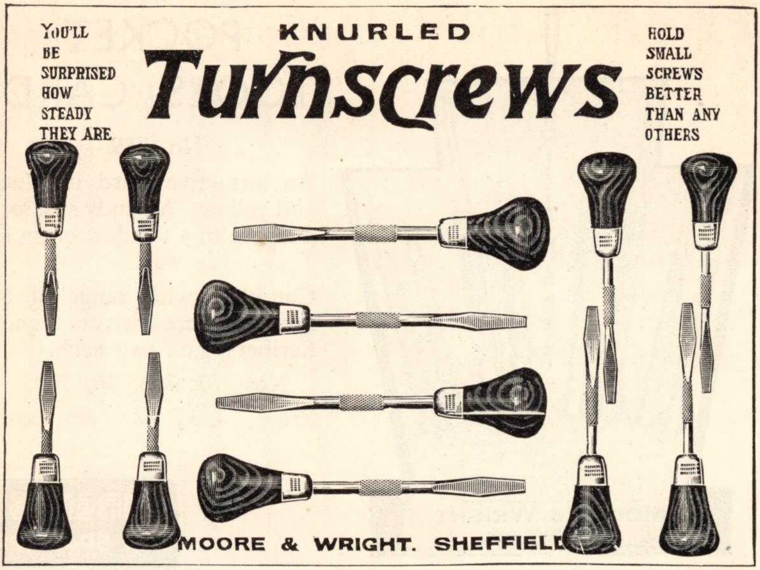
RATCHET SCREWDRIVER

A Card of outstanding design that will make an excellent display for any Counter or Window.

Price .. 9/–
per Card of 5 assorted

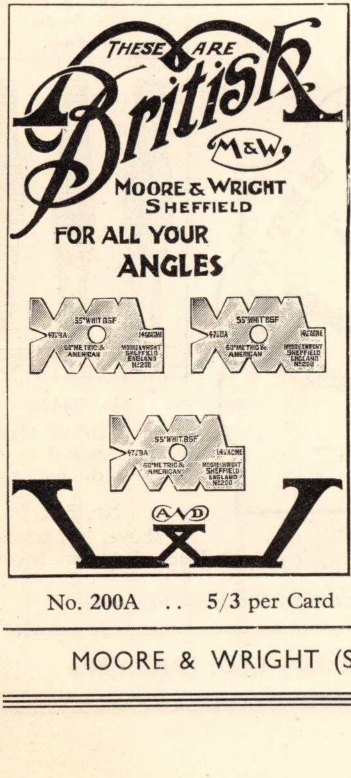

MANᴰ BY MOORE & WRIGHT (SHEFFIELD) LTD
BRITAINS TOOL FACTORY, SHEFFIELD ENG.
M&W
BRITISH RATCHET SCREWDRIVER
STEEL RATCHET
STEEL PAWLS
FORGED BLADE
OIL TEMPERED
All British material & labour

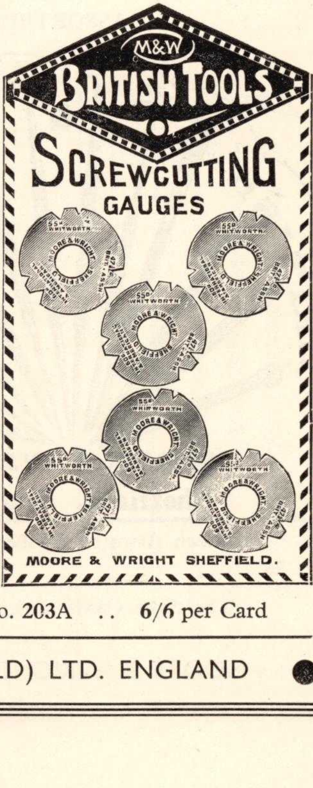
No. 950A


YOU'LL BE SURPRISED HOW STEADY THEY ARE
KNURLED
Turnscrews
HOLD SMALL SCREWS BETTER THAN ANY OTHERS
MOORE & WRIGHT. SHEFFIELD

No. 283A 1 Card of 12 polished handle Turnscrews (four each 1½″, 2½″, 3½″) 7/– per Card

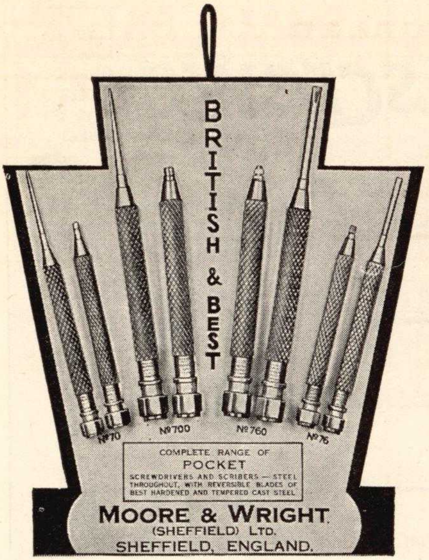
No. 283B 1 Card of 3 each 1½″, 2½″, 3½″ and 6″ .. .. 8/– per card





No. 200A .. 5/3 per Card

No. 203A .. 6/6 per Card


BRITISH & BEST
No 70
No 700
No 760
No 76
COMPLETE RANGE OF
POCKET
SCREWDRIVERS AND SCRIBERS — STEEL THROUGHOUT, WITH REVERSIBLE BLADES OF BEST HARDENED AND TEMPERED CAST STEEL
MOORE & WRIGHT
(SHEFFIELD) LTD.
SHEFFIELD, ENGLAND.

POCKET TOOLS CARD

No. 759

An attractive Card in blue and yellow. A handy size for hanging in a window or on a wall.

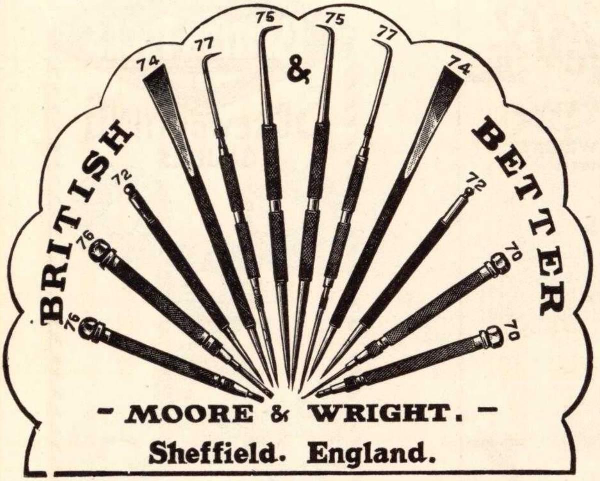
Complete with range of 8 Pocket Screwdrivers and Scribers, i.e., two each.

Nos. 70, 700, 76, 760.

Price .. **12/–** per Card

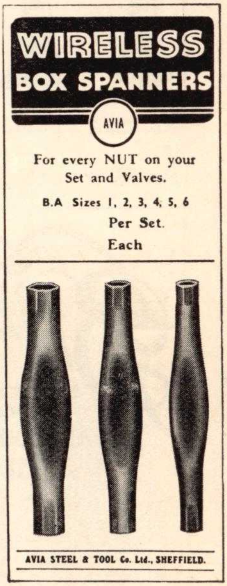
SCRIBERS ON CARD

ASSORTED



1 dozen Assorted Scribers, as shown.

No. **78** .. .. **10/–** per Card.


WIRELESS
BOX SPANNERS
AVIA
For every NUT on your Set and Valves.
B.A Sizes 1, 2, 3, 4, 5, 6
Per Set.
Each
AVIA STEEL & TOOL Co. Ltd., SHEFFIELD.

No. **544X**

One Card of three covering sizes 0 to 6BA.

Price **11d.** per Card

No. **551**

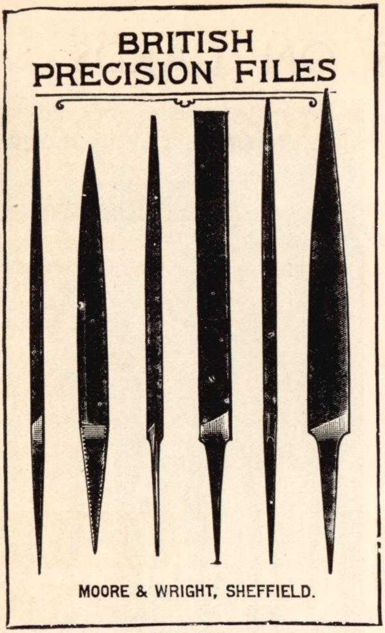
As above, but stronger.

Price **1/1** per Set of 3

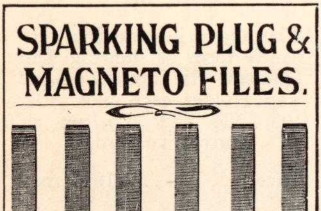
The three Cards illustrated are excellent business bringers.

SMALL BRITISH FILES, Etc.

The Cards shown on this and the next page are an effective selling range that cannot afford to be neglected.



No. 580
6 assorted Files of various shapes and cuts up to 3½″ 2/9 per card


SPARKING PLUG &
MAGNETO FILES.
AVIA STEEL & TOOL Co. Ld. SHEFFIELD

No. 584

NEEDLE ☞

FILES

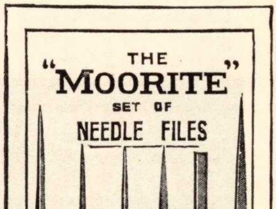
Card of 6 Needle Files, round handle 2/- per card

LOOSE NEEDLE FILES, No. 584
14c/m 5½″ .. 4/- per doz.

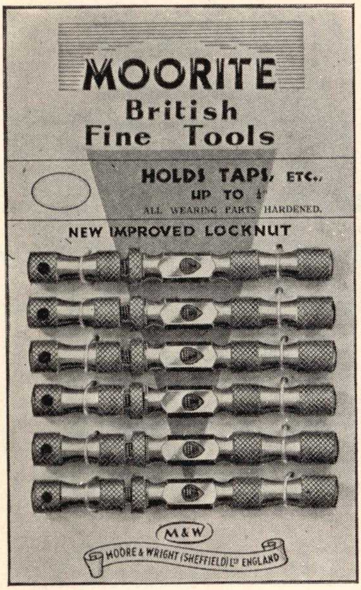
All shapes same price

☜ No. 583

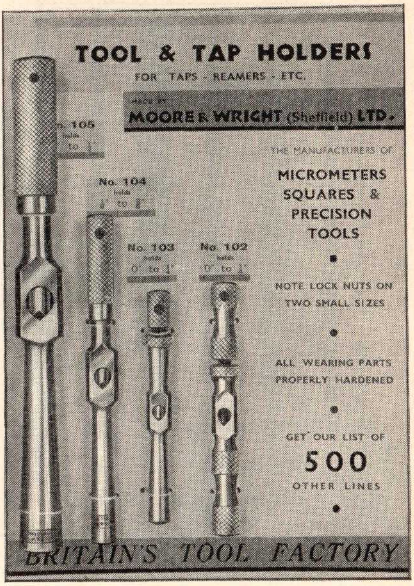
Card of 6, price 2/9 per card.



TAP HOLDERS ON CARDS



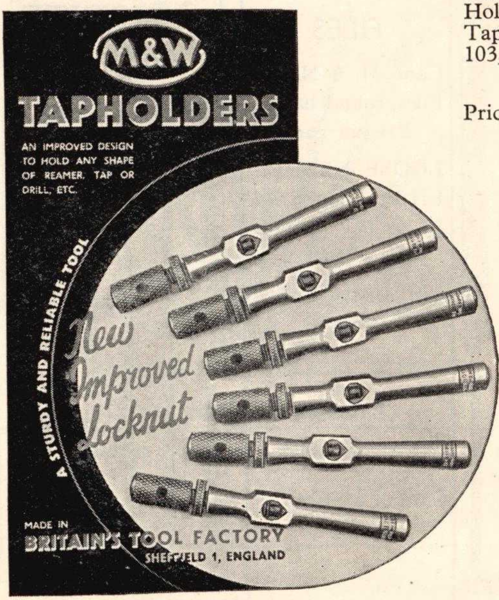
No. 102A
1 Card as shown .. **5/6** per card



No. **107**

The above illustrates a very handy form of showing Tap Holders. It consists of one Tap Holder each Nos. 102, 103, 104 and 105, on an attractive card.

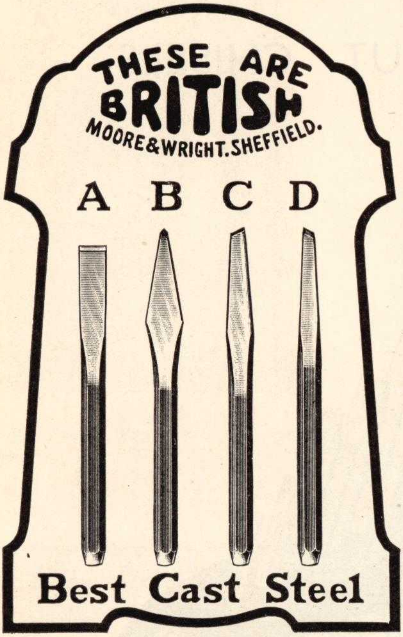
Price .. .. **10/3** card



No. **103A**
1 Card of 6, small size,
6/- per card.

No. **111A**
1 Card of 6, as shown,
10/- per card.

THE FAMOUS LINE of CARDED CHISELS



OCTAGON COLD CHISELS

On Showcard.

No. 239	Set of 4, $\frac{1}{4}$ in. diam. ..	1/4 per card
No. 240	,, $\frac{5}{16}$ in. ,, ..	1/6 ,,
No. 241	,, $\frac{3}{8}$ in. ,, ..	1/10 ,,
No. 242	,, $\frac{1}{2}$ in. ,, ..	2/– ,,
No. 243	,, all flat, one each, $\frac{1}{4}$ in., $\frac{5}{16}$ in., $\frac{3}{8}$ in., $\frac{1}{2}$ in. diam.	1/8 ,,

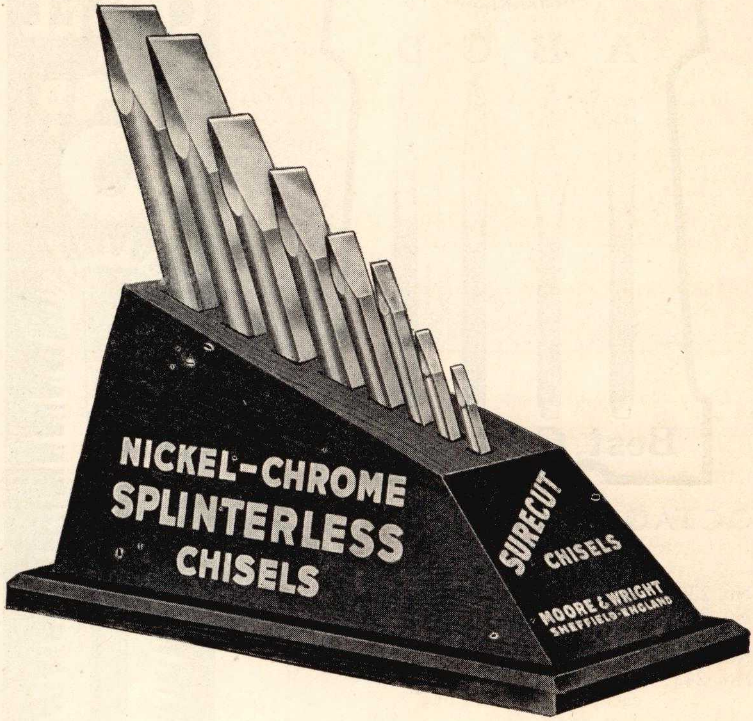
KNURLED COLD CHISELS

On Showcard.

No. 209	Set of 4, $\frac{1}{4}$ in. diam. ..	1/4 per card
No. 210	,, $\frac{5}{16}$ in. ,, ..	1/6 ,,
No. 211	,, $\frac{3}{8}$ in. ,, ..	1/10 ,,
No. 212	,, $\frac{1}{2}$ in. ,, ..	2/– ,,
No. 213	,, all flat chisels, one each $\frac{1}{4}$ in., $\frac{5}{16}$ in., $\frac{3}{8}$ in., $\frac{1}{2}$ in. diam. ..	1/8 ,,

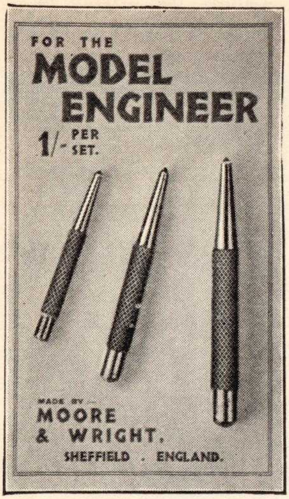
**PRICES
of all
COLD CHISELS
as CATALOGUE**

SURECUT CHISELS



This Stand is given free with 2 dozen Assorted Chisels. It shows a complete range of sizes at a glance, and will make a quick selling line.

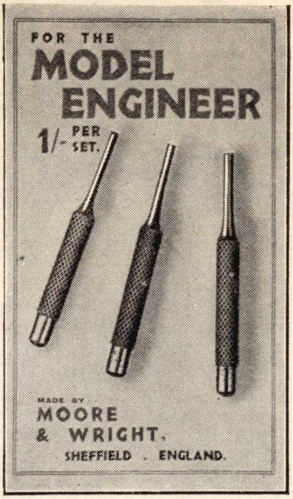
SMALL PUNCHES
for Model Makers



No. 265

Set of 3 Centre Punches . . 1/– per Set

1 each	A	B	C	
	$2\frac{1}{4}''$	$2\frac{3}{4}''$	$3\frac{3}{8}''$	long
	$\frac{5}{64}''$	$\frac{1}{8}''$	$\frac{9}{64}''$	at point
	$\frac{3}{16}''$	$\frac{1}{4}''$	$\frac{5}{16}''$	dia.



No. 266

Set of 3 Pin Punches, 1/– per Set

1 each	A	B	C	
	$2\frac{1}{4}''$	$2\frac{3}{8}''$	$2\frac{1}{2}''$	long
	$\frac{1}{16}''$	$\frac{5}{64}''$	$\frac{3}{32}''$	at point
	$\frac{3}{16}''$	$\frac{3}{16}''$	$\frac{3}{16}''$	dia.

No. 267

Set of 3, larger . . 1/– per Set

1 each	A	B	C	
	$2\frac{3}{4}''$	$2\frac{7}{8}''$	$3''$	long
	$\frac{5}{32}''$	$\frac{7}{64}''$	$\frac{1}{8}''$	at point
	$\frac{1}{4}''$	$\frac{1}{4}''$	$\frac{1}{4}''$	dia.

THESE ARE
British
M&W
MOORE & WRIGHT
SHEFFIELD
PIN PUNCHES, No. 161
This Set of Punches is made and specially tempered for knocking out Cotter, Taper and Split Pins.
MADE OF SHEFFIELD CAST STEEL
PRICE, Set of 5
EACH

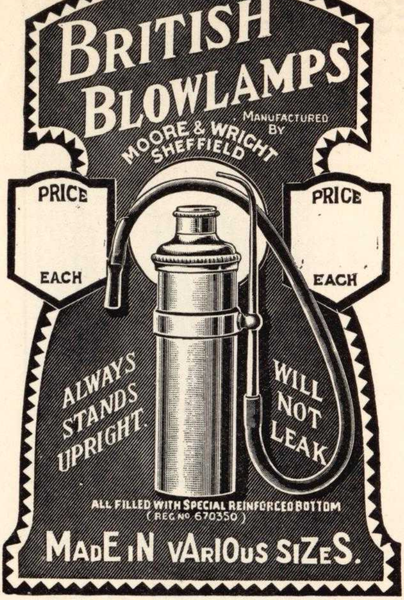
PARALLEL PIN PUNCHES

No. 161

Approx. Length.		ins.		
4 ins.	AA Size	$\frac{9}{32} \times \frac{1}{16}$	**7½d.**	each
4 ins.	A ,,	$\frac{9}{32} \times \frac{3}{32}$	**7½d.**	,,
4 ins.	B ,,	$\frac{9}{32} \times \frac{1}{8}$	**6d.**	,,
4 ins.	C ,,	$\frac{5}{16} \times \frac{3}{16}$	**6d.**	,,
4 ins.	D ,,	$\frac{3}{8} \times \frac{1}{4}$	**6d.**	,,
6 ins.	E ,,	$\frac{1}{2} \times \frac{5}{16}$	**1/4**	,,

161F	Set of 5, $\frac{3}{32}$ to $\frac{5}{16}$ in. dia. . .	3/6
161G	Set of 5, $\frac{1}{16}$ to $\frac{1}{4}$ in. dia. . .	2/9

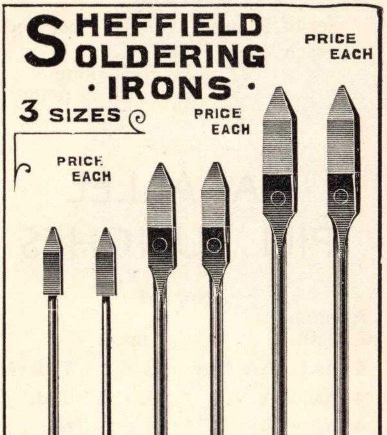
On Card as shown.



With every order for Blow Lamps one Handsome Show Card, as illustration, is sent free of charge.

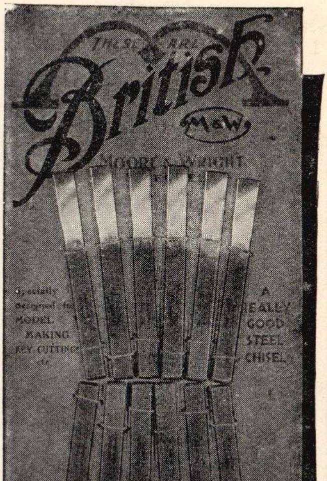
ALL BLOW LAMPS HAVE REGISTERED REINFORCED BOTTOM

OLD PATTERN SOLDERING IRONS



No. 772
Card of 6, Assorted,
No. 1, 2 and 3 .. 5/– per Card

CAST STEEL CHISELS

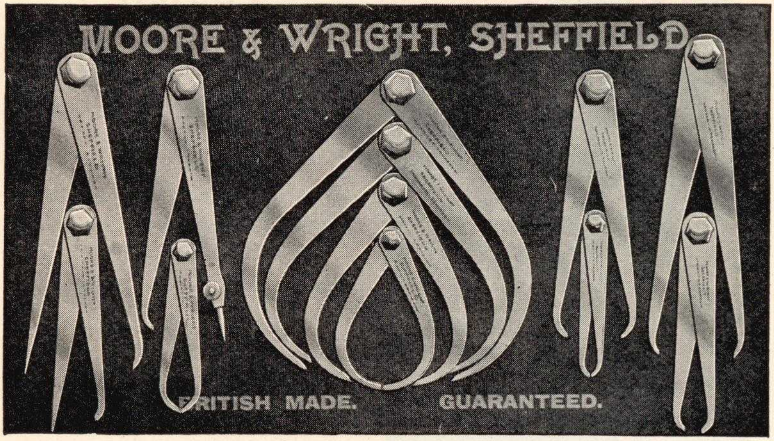

THESE ARE
British
M&W
MOORE & WRIGHT
Specially designed for MODEL MAKING KEY CUTTING etc
A REALLY GOOD STEEL CHISEL

For Model Makers, Keycutters, and any Small, Fine Work.

No. 215
1 dozen on Card, as shown.
Size $3\frac{1}{2} \times \frac{3}{8} \times \frac{1}{8}$ in. $\frac{3}{8}$ in. on cut.
Approximate sizes.

No. 215
1 dozen on Card .. 3/3 per Card.

CARBON STEEL CALLIPERS



New Assortment, including latest pattern Jenny

No. **365**

This Card contains	1	Firm Joint Outside	Calliper,	No. 331, each 3, 4, 5, 6 ins.
	1	„ „ Inside	„	No. 330, each 3, 4, 5, 6 ins.
	1	„ „ Jenny	„	No. 332, 4 ins.
	1	„ „ „	„	No. 336, 5 ins.
	1	„ „ Pocket	„	No. 338, 3¼ ins.
	1	„ „ New Jenny	„	No. 341, 5 ins.

Price .. **15/6** per Card.

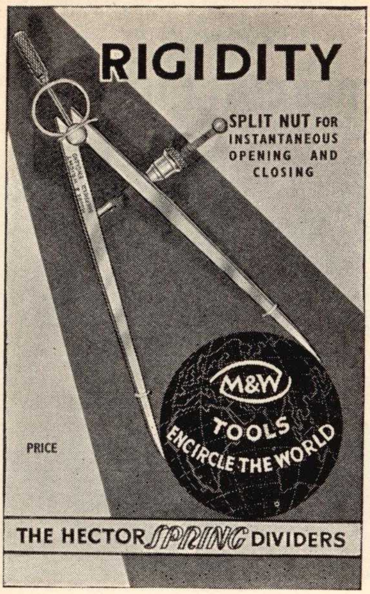
STAINLESS STEEL CALLIPERS

No. **388** Card of 12 assorted of above, consisting of :—

2 Insides	.. ..	each 3 in. and 4 in.
1 Inside	.. ..	„ 5 in. and 6 in.
2 Outsides	.. ..	„ 3 in. and 4 in.
1 Outside	.. ..	„ 5 in. and 6 in.

per Card **27/6**

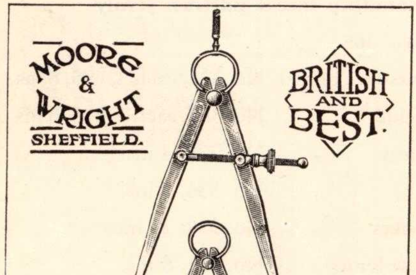
F. J. Callipers measure approximately one-third greater than their nominal size.


RIGIDITY
SPLIT NUT FOR INSTANTANEOUS OPENING AND CLOSING
M&W
TOOLS ENCIRCLE THE WORLD
PRICE
THE HECTOR SPRING DIVIDERS

THE HECTOR SPRING DIVIDER

This is a robust Card that will show to advantage in a window or Counter Display.

No. **60** Price .. 5/9 each


MOORE & WRIGHT SHEFFIELD.
BRITISH AND BEST.
ALL OTHER SIZES IN STOER
ASK FOR LIST OF OTHER TOOLS

No. **366**

This Card contains an assortment of 6 good selling lines of Spring Dividers and Callipers as listed on page 97. Details below.

IDEAL FOR WINDOW DISPLAY

14/- per Card

We shall be pleased to mount any other assortment to customer's requirements.

Contents of Card No. 366

1	Spring Divider	50	6 in.
1	„ „	53	3 „
1	„ „	53	5 „
1	„ Calliper	52	3 „
1	„ „	52	4 „
1	„ „	51	5 „

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